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RUBBER BUSINESS NEWS



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Issue - 1

★ Branding ★ Marketing ★ Sourcing ★ Networking

January - 2011



RUBBER BUSINESS NEWS

Cover Story - Indiarubberdirectory.com

The Most Powerful Online Rubber Branding, Marketing Tool for the Rubber Industry

IndiaRubberDirectory.com., The premium industry specific portal developed to serve the Complete Spectrum of Rubber Industry. Our basic mantra is to connect the each and every rubber people to the global markets with the help of Internet Technology. IndiaRubberDirectory.com is the largest Rubber Portal in the planet serving around 25,000 rubber people spread across the globe..



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IRD has invested huge amount on Promoting the directory by Search Engine Marketing concept on major search engines, like Google, yahoo, Live, AltaVista, etc., .As the result excellent brand visibility is guaranteed for all advertisers and members of our portal IndiaRubberDirectory.com.

Further, When a potential buyers search for any rubber related terms such as rubber products, rubber products exporters, rubber directory, rubber experts, rubber associations, rubber consultants, raw rubber importers, rubber manufacturers, rubber consultants, rubber distributors, rubber engineering, rubber machinery manufacturers etc., our directory will on the top 10 position on all major search engines, which will be an assets to all users of IRD to promote the their business Internationally.

We invite corporate to provide press releases, news, new inventions / achievements, product launches, promos, technical papers, contest etc., which will display on the corporate info pages of IRD at free of cost.

We invite corporate / Institutions / SME to place the advertisements on IRD, As a result we assure that your company products / Brand will reach the focused rubber audience both domestically and Internationally at most competitive tariff.

The primary advantages are:

- On placing your Advertisement on IRD, you reach thousands of potential buyers minds (Both domestic and International) within a short span time easily and effectively at an unimaginable price compare to the print media.
- Brand value and product / services positioning will be created and maintained in the mind of the target audience.
- True positioning distinguishes your company/ services from competitors. So that the company / product becomes a preferred one in the minds of customers.
- IRD is the online Brand Building Tool for your company
- Advertising is most wonderful tool to make your product / services unique and distinctive. Short IRD is the Most Powerful Tool To Reach the Target Rubber Industry People globally.

continued page no.2



Polymerminds.com
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Polymerminds.com has started by the group of service minded people, with the goal to serve the polymer and chemical community by providing the best possible jobs available in the planet to the right candidate at the right time, with the help of internet technology.

Polymerminds.com Polymerminds.com has started by the group of service minded people, with the goal to serve the polymer and chemical community by providing the best possible jobs available in the planet to the right candidate at the right time, with the help of internet technology. As we know a good start is half done, by placing the candidate at the right company will provide them a wonderful career opportunity and bright future.

Polymerminds.com, the Best Job Portal for the Polymer and Chemical community on the planet. We provide free services for all job seekers from fresher to experienced people to all domestic placements. Our sole aim is to connect the each every polymer and chemical technologist to the world job markets efficiently. In short Polymerminds.com is a very specialized portal catering the job solutions of Polymer and Chemical Industries with e-zine to expand the knowledge and skills.

Recruitment process is easier when you've become the member of Polymerminds.com. Polymerminds.com is the leading job portal for the polymer and chemical community started with the true vision of connecting companies with the right candidates of required skill set.

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Editorial Message

Indiarubberdirectory.com, the premium Rubber Portal of India, proudly presents RUBBER BUSINESS NEWS MAGAZINE for the welfare of Rubber Business Community. The sole aim of this magazine is to share the views, market trends, technical papers,

New products launches in the market, Technology, Business Opportunities to grow the Rubber Business, and other necessary information to all the readers. The readers can also use the RUBBER BUSINESS NEWS MAGAZINE as a tool to develop business effectively with little investment.

We promote the Advertisers business both online and print medium for better reach and business generation. We solicit your continuous patronage and valuable suggestions to make this magazine as a most preferred tool the develop Rubber Business.

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As the result of potential demand for
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from both overseas and domestic Rubber people.

IndiaRubberDirectory.com team is proud to launch the largest directory on Indian Rubber Industry in the name of INDIA RUBBER DIRECTORY 2011. (Third Edition)

India Rubber Directory – 2011 The Most Powerful CD and Internet Directory on the Indian Rubber Industry, covering all the category and service segment in-depth for the benefit of World Rubber Buyers, Manufacturers, Importers & Exporters, Businessmen, Traders, Professionals, Polymer Consultants, Associations, Investors, Banks and Financial Institutions and Educational Institutes etc. will be launched shortly.

In short, it is a Most Powerful Business Promotion tool for all rubber industry people with listing of around 10,000 companies.

Extensive information on rubber technology, Rubber articles, Rubber statistics, Market trends and events are provided for the welfare of the Indian Rubber Industry.

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Announcement & Invitation
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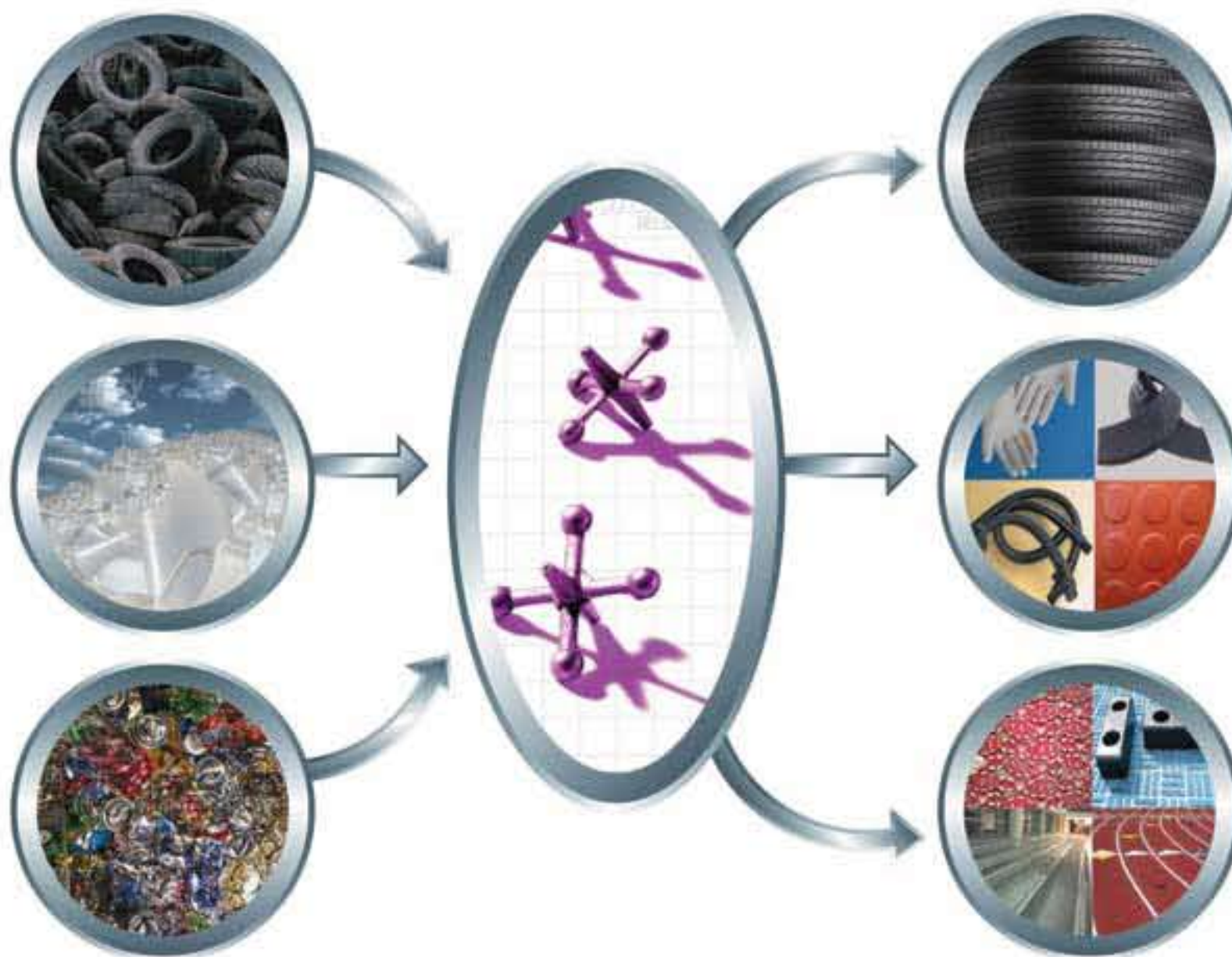
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The TVS group proudly upholds the same traditions set by its Founder and continues to pioneer innovation. With a combined turnover of more than USD 6 billion, the Group employs a total workforce of around 35,000 employees.

Sundaram Industries Ltd., a group company of the illustrious TVS house has pioneered many a change. Today, we are proud to introduce to India, yet another innovation for the rubber industry - Devulcanized Rubber Compound (TVS DRC). Being the exclusive licensee of South East Asia for this unique technology from LEVGUM - Israel, TVS DRC is all set to revolutionise the rubber product manufacturing sector.

This cost-effective product from Sundaram Industries and LEVGUM - will not only reduce material costs but will also promote eco-friendliness and sustainable manufacturing.

TVS DRC

Devulcanized Rubber Compound

TVS DRC offers an innovative solution to the huge waste cured rubber that is generated by the rubber product manufacturing industry. This waste will no longer find its way to landfills but instead can be successfully devulcanized and reused as a key input raw material.

The devulcanization process of waste rubber involves breaking down the sulphur links that are crossed between rubber chains in vulcanized rubber. To facilitate this innovative process, TVS DRC uses patented break through technology that is made available by LEVGUM, Israel.

As a result of Lev gum's revolutionary technology, high-quality devulcanized rubber compound can replace virgin rubber at significant cost savings, thereby ensuring a better future for rubber product manufacturers.

TVS DRC is all set to revolutionise the rubber industry with a raw material that is a boon to them.



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Press Release

Jk Tyre - Chennai

Tyre major JK Tyre with an investment of Rs 1,500 crore to set up a state-of-the-art greenfield radial tyre manufacturing unit in Sriperumbudur, Chennai which would produce 56 lakh tyres annually.

They signed a Memorandum of Understanding with the Tamil Nadu Government today for this purpose. With 50 lakh car tyres and six lakh bus and truck radial tyres, our annual domestic capacity will reach 1.55 crore," JK Tyres and Industries Limited Vice-Chairman and Managing Director Dr Raghupati Singhania told reporters.

The plant to be set up in the industrial hub of Sriperumbudur would start production by the end of 2011 in first phase. Full supply of radial tyres from the new plant would start in 2012.

CEAT Ltd acquires global rights of Brand CEAT from Pirelli

RPG Group's tyre-manufacturing company, Ceat, today said it has acquired the 'Ceat' brand from Italy-based Pirelli for Euro 9-million (Rs 55-crore) which would enable the company to export radial and cross-ply tyres to the whole world under the Ceat brand.

Ceat Limited is currently the owner of the Ceat brand in nine South Asian countries--India, Sri Lanka, Bangladesh, Myanmar, Pakistan, Bhutan, Nepal, Afghanistan and Vietnam. Pirelli is the owner of the Ceat trademark in the rest of the world.

This acquisition will open up European, African and Latin American markets for Ceat radicals.

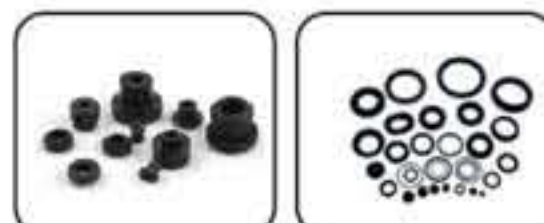
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Technical Dictionary



Air Pressure

The amount of air inside the tyre pressing outward on each square inch of tyre, which is expressed in pounds per square inch (psi) or kiloPascals (kPa), the metric designation for air pressure.

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All-season traction

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Information on Rubber

What is rubber and why does it stretch?

The terms elastomer and rubber are scientifically identical and interchangeable, although the latter is used in some areas to refer only to natural rubber which comes from the latex contained by some trees and other plants - as opposed to synthetic rubber which is generally an oil by-product. Some Standards attempt to reserve the term elastomer for a crosslinked material (see below for an explanation of crosslinking), Elastomers are a class of

materials which differ quite obviously from all other solid materials in that they can be stretched, easily and almost completely reversibly, to high extensions. An ordinary postal rubber band illustrates this behaviour. It will generally be made from natural rubber, and can be stretched perhaps 600% (i.e. to seven times its original length), after which - before reaching its ultimate breaking elongation - it can be released and will rapidly recover to almost exactly the original length it had before stretching. The material is said to be elastic. Most synthetic elastomers are not as elastic as natural rubber, but all can

be stretched (or otherwise deformed) in a reversible manner to an extent which easily distinguishes them from all other solid materials. (n.b. a metal spring exhibits high reversible elasticity, but this is a feature of its wound shape. The actual metal itself of which the spring is made only deforms slightly, by twisting locally, at any particular point - nothing like the high deformations of which elastomers are capable.)



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- Axxon – 207 – Anticorrosion compound for tools and molds,
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Information on Rubber

Low temperature behaviour. What is the 'glass transition temperature'?

When different elastomers are being described, a fundamental property which is often quoted is the 'glass transition temperature, T_g ', which differs from one elastomer to another. For example, for natural rubber T_g is -70°C (-95°F). Broadly this means that above -70°C the material behaves as a rubber, but below -70°C the material behaves more like a glass.

When glassy, natural rubber is about one thousand times as stiff as it is when rubbery. When glassy a hammer blow on natural rubber will cause it to shatter like a glass; when rubbery the hammer is likely just to bounce off.

Of course in practice the dividing line between the glassy and rubbery behaviour just described is not as sharp as this. In fact the transition is spread over some tens of degrees - but it is centred around -70°C . Thus, although a T_g can be accurately defined (although varying somewhat with the precise test

conditions), for practical purposes we have to consider a glass transition region within which the properties are slowly changing from rubbery to glassy or vice versa (the processes are completely reversible). The broadness of this transition region varies from elastomer to elastomer.

Strictly speaking we should only use the term 'elastomer' to describe a material when it is above its glass transition temperature, but such a distinction would generally be regarded as pedantic. Definitions of this type (such as 'elastomer' or 'glassy polymer') are accepted as applying to the state of the polymer at ambient temperature.

The reason for the existence of a glass transition temperature can be understood in terms of the molecular model of rubber which has been described above. It has been seen that, at normal temperatures, the molecular chains are in a constant state of thermal motion, that they are constantly changing their configuration, and that their flexibility makes them reasonably easy to stretch. It is not difficult to appreciate that as the temperature is lowered the chains become less flexible and the amount of thermal motion decreases. Eventually, a low temperature, the glass transition temperature, is reached, where all major motion of the chains essentially ceases. The material no longer has the properties which make it an elastomer, and it behaves as a glass.

For all practical engineering uses of elastomers we require good flexibility - so it is essential that we use them only at temperatures which are comfortably above the glass transition. This is generally no problem for natural rubber with a T_g of -70°C , or cis-butadiene rubber with a T_g of -108°C (-160°F). But many elastomers, especially those which have been designed to be highly heat or oil resistant, have much higher T_g s, and this must be borne in mind when selecting them for service applications. For example some fluoroelastomers, which have excellent oil and heat resistance, have a T_g not far below normal room temperature. This can result in problems if a component required to work at high temperature also has to serve the same function on cooling down, and must be considered in design.



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- Natural Rubber
- Nitrile
- Fluro carbon
- Polychloroprene
- Silicone
- E.P.D.M.
- HNBR etc.



M/s JANANI MOULDINGS (P) Ltd

Survey No: 36/2B, Kelambakkam - Vandalur Road, Pudupakkam - 603103, Kancheepuram District,
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E-mail: miv@microrheometer.com | rheometer@vsnl.net
Website : www.microrheometer.com
For Details Contact : Mr. Ashok Sharma-CEO, Mob +91-9812023575.

miv@microrheometer.com | rheometer@vsnl.net | www.microrheometer.com

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A.Lakshminarasimhan - Director

TARA GARDEN, 342, Melakkal Main Road, Kochadai, Madurai - 625 016,
Tamil Nadu, South India, Phone : +91 452 6587999, Fax : +91 452 2384542
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Interplastica 2011

Venue: Expocenter Krasnaya Presnya Moscow
Country: Moscow, Russia
Start Date: 25-JAN-11 End Date: 28-JAN-11
Organizer: Messe Dusseldorf GmbH
Add: Stockumer Kirchstrasse, 61, Messeplatz, Germany
Tel: +(49)-(211)-4560900/4560175
Fax: +(49)-(211)-4560668/4560740.

Tyrexpo Asia

Venue: Singapore Expo
Country: Singapore
Start Date: 29-MAR-11 End Date: 31-MAR-11
Organizer: ECI International Limited
Add: PRIORY PARK BEECH GREEN LANE, Witherham, Hartfield,
United Kingdom
Tel: +(44)-(1892)-770777, Fax: +(44)-(1892)-770888

Rubber 2011

Venue: Tuyap Adana International Exhibition & Congress Center
Country: Adana, Turkey
Start Date: 06-APR-11 End Date: 10-APR-11
Organizer: Tuyap Fairs and Exhibitions Organization Inc.
Add: Tuyap Fuar Ve Kongre Merkezi, E-5 Karayolu, Gurpynar Kavpaoy, Beylikduzu, Istanbul, Turkey.
Tel: +(90)-(212)-8866843,
Fax: +(90)-(212)-8866243

China Qingdao International Rubber Technology Fair

Venue: Qingdao International Convention & Exhibition Center
Country: Qingdao, China
Start Date: 11-APR-11 End Date: 13-APR-11
Organizer: Qingdao Jinnuo Exhibition Co. Limited
Add: 902, Fulin Building, 87, Fuzhou Road, Qingdao, China
Tel: +(86)-(532)-85710837/85785101
Fax: +(86)-(532)-85785105

Plastic, Packaging, Paper & Print Asia

Venue: Karachi Expo Center
Country: Karachi, Pakistan
Start Date: 26-APR-11 End Date: 28-APR-11
Organizer: E- Commerce Gateway Pakistan Private Limited
Add: C-17, KDA Scheme - I Off: Karsaz Road, Karachi, Pakistan
Tel: +(92)-(21)-11122444
Fax: +(92)-(21)-34536330

Chinaplas

Venue: China Import & Export Fair Pazhou Complex
Country: Guangzhou, China
Start Date: 17-MAY-11 End Date: 20-MAY-11
Organizer: Adsale Exhibition Services Limited
Contact Person: Ms. Iris Ho
Tel: +852--25163374
Add: 6th Floor, 321 Java Road North Point, Hong Kong, China (Hong Kong S.A.R.)
Tel: +(852)-(2)-8118897/5165024
Fax: +(852)-(2)-5165119
Messe Dusseldorf China Ltd.
Add: Units 307 - 308, Tower 1, German Centre for Industry and Trade Shanghai, 88 Keyuan Road, Zhangjiang Hi-Tech Park, Pudong, Shanghai, China
Tel: +(86)-(21)-61698300
Fax: +(86)-(21)-61698301

TYREXPO INDIA

Venue: Chennai Trade & Convention Centre
Country: India
Start Date: 05-JUL-11 End Date: 07-JUL-11
Organizer: ECI International Limited
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Quick Company Profile

Tyre Tubes, Flaps

Matangi Rubber Pvt. Ltd

Contact Person : Mohit Gupta
Designation : Managing Director
Products Description Tyre Tubes, Flaps,
Compounding & Mixing

Head Office:

D-16, Defence Colony
New Delhi-24
Ph No: 91-11-41608373
Factory Address:
Khasra No : 1036, 1038 & 1039
Industrial Area, Camp Road,
Selaqui, Dehradun
Email: matangi.india@gmail.com

Rubber Chemical & Additives

Jinesh Chemicals Pvt. Ltd.

Jinesh Chemicals Pvt. Ltd. an ISO 9001:2000 certified company, with a mission to manufacture fine specialty chemicals of high quality low cost and with excellent customer services. Jinesh is proud to be in the area of custom synthesis and contract research. We have capacity to work on special molecules from gm to Kgs & up to commercial scale size in production after conducting proper scale up studies in our multipurpose versatile plant. Our capacity in organic chemistry enables us to design multi step synthesis & achieve final results at affordable price. We are credited with custom synthesis product for BAUSCH & LOMB (United States based).

Products : Mfrs.of Rubber chemical- Antioxidant, fabric proofing

6, Federation House, 24/30, Anandilal poddar Marg, Opp. Metro Cinema, Mumbai - 400002, Maharashtra, India
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C/4, Indraloc, Old Nagardas Road, Andheri (E),
Mumbai-400 069, Maharashtra, India
Phone : 91-22-6699 1723, Mobile : 91-98196 08997
Fax : 91-22-2834 2934, Email : mehta.traders@gmail.com
Web : www.mehtatraders.com

Yasho Industries Pvt. Ltd.

Research and Development is our core strength. Continuous innovation, Process Upgrades and Product Enhancement , complement our 20 years' experience in manufacturing a wide range of speciality & fine chemicals such as Antioxidants , Rubber Chemicals , Cosmetic Ingredients and Aroma Inputs. Incorporated in the year 1985, Yasho Industries commenced exclusive operations in 1993. Our large-scale manufacturing facility incorporates Glass & Stainless Steel Reactors ranging from 45 - 10,000 litres and is equipped with various unit operations to support production activity.

Products : Rubber Chemicals , Cosmetic Ingredients

31-H, Laxmi Industrial Estate, New Link Road, Andheri (East),
Mumbai-400 053, Maharashtra, India.
Phone : 91-22-66929152 / 66929153 / 26310350
Fax : 91-22-66929154, Email : yasho@bom3.vsnl.net.in
Web : www.yashoindustries.com

Goldy Industries

Since 1980, Goldy Industries has been in the business of manufacturing and exporting "Goldy" brand of Rubber Moulded Products/ Yellow Polyurethane Moulded Products/ Sheet Metal Components etc. Since inception,we have given great importance to control the quality of products. Our manufacturing processes lay high emphasis on continuous technology upgradation. Infact in this course of time,we have become the world's trusted Indian source for a wide and comprehensive range of these type of products.The company owes its success to hard

work, dedicated staff and the policy of being totally committed towards customer satisfaction,not only through quality products but also through a very competitive pricing structure. We have the capacity of Developing and producing any item as per Customer requirements and specifications.

Products : Mfrs of Black Rubber Boat Trailer Rollers, Yellow Polyurethane Rollers, Marine Hardware Products, Sheet Metal Components,Rubber Molded Mud Flaps, Rubber Molded Products

28/127, West Patel Nagar, Delhi-110008, Delhi, India Phone : 91-11-25889675 Mobile : 91-9811130826
Email : Goldyindustries@gmail.com , www.rubber-india.com

Moulded & Extruded Rubber Products

IIEx Enterprise

IIEx Enterprise was established in the year 2008 in Jankapuri, New Delhi. Since then, we are hosting global clients by providing them a wide array of industrial products at competitive prices. Under the guidance-shelter of our respectable CEO, Ms. Shraddha Avasthi, we have learnt the art of dealing the valued clients by understanding their requirements and cater accordingly. His years of experience and expertise in this domain have earned us the tag of reliable Automotive Products Trader and Exporter in India.

Products : Ceramic Balls, Steel Balls, Grinding Media Balls, Cylindrical Roller Bearings, Industrial Rubber, Rubber Seals, Metalized Ceramics, Ceramic Microspheres, Fly Ash Cenosphere, Disposable Surgical Items, and many others

Jankapuri, Delhi-110058, Delhi, India
Phone : 91-11-25517585, Mobile : 91-9810446156
Email : info@indianindustrialexporters.com
Web : www.microandcynosphere.com

India Oil Seals & Synthetic Products

India Oil Seals & Synthetic Products is one of the leading companies manufacturing various types of rubber products based in Kolkata, India. Established in 1966 as a small unit manufacturing o-rings and oil seals, we have come a long way and now offer a diverse range of rubber products like Conveyor Belts, Rubber Hose, Composite Hose, Sheets, Mats, Rubber lining etc. under the Brand name DURATUF. We have gained wide experience in the field of rubber technology experimenting in the field since the last 4 decades The result of the vast experience has translated into our ability to offer the best quality materials at the most competitive prices.

Products : Conveyor Belts, Composite Hose, Rubber Hose, Rubber Sheets, Rubber Lining Pipe, Cold Bonding Solutions, Rubber O Rings, Rubber Rings, Rubber Gaskets (In All Shapes)

P-36, India Exchange Place, 5th floor, Kolkata-700 001,
West Bengal, India, Phone : 91-33-4005 2389,
Mobile : 91-9831138388, Fax : 91-33-2225 4964
Email : info@iossp.in, Web : http://www.iossp.in

Hat Rubbers

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Products : Mfrs & Expts of Moulded Industrial Rubber Components, Specialized in 'o' rings & oil seals.

109, Angappa Naicken Street, Post Box No. 2046,
Chennai-600 001, Tamil Nadu, India
Phone : 91-44-25240876, Mobile : 91-9840052408
Fax : 91-44-25221656, Email : hatrubbers@vsnl.net
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Rubber Beltings

Neelkanth Beltings

Neelkanth is a proficient company that was founded in the year 1998. We introduce ourselves as one of the leading manufacturers of conveyor belts and flat transmission belts. In past years, we have made enormous progress by growing from a small company to one of the principal manufactures of industrial belts.Neelkanth has been manufacturing and exporting a vast

array of various high quality industrial belts. Our products are widely used in numerous applications, We follow the well proven quality standards of ISO 9000:2001. Our products are extremely efficient and reliable.

Products : Mfrs. & Exporters of Rubber Conveyor Belts, Chevron Belts, Power Transmission Belt, and Natural Rubber Sheets.

D-94 Sports & Surgical Complex, Jalandhar-144021

Punjab, India. Phone : 91-181-2650862
Mobile : 91-9814065424 / 9888995424
Fax : 91-181-2650625, Email : info@neelkanthbeltings.com
Web : www.neelkanthbeltings.com

Bharath Rubber (India) Limited

Every concept becomes a big success when ideas are put in a right direction. Our founder Mr. Muniyandi started this industry in 1984 with an aim to generate employment opportunities for the sons of his soil and others. At the beginning, our company was started with just 15 employees. At present Our company is generating job opportunities for 400 employees directly and more than 1000 persons in an indirect way. Initially our company was managing with hand molding operations by getting 500 Belts per day as the production capacity. By the way of TriFold development, We have increased this quantity in to 20000 Belts per day at present. Now our capable processing Machines are in full swing to produce world class products.

Products : Mfrs of Veegrip Power Bond - V Belts, Plain Belts

1st Floor, 172/2, Bye-Pass Road, Fatima Nagar,
Bethaniyapuram, Madurai-625 016, Tamil Nadu, India.
Phone : 91-452-2386657 / 6537181,
Mobile : 91-9244226657, Fax : 91-452-2386778
Email : sales@veegripbelts.com, Web : www.veegripbelts.com

Global Exim India

Global Exim India is based at Cherthala in Alappuzha District which begins with coir and extended its product range includes to jute, cotton and rubber items of very good quality. The company is capable of catering all demands of the customers in any part of the world. Also its manufacturing facility is capable of large scale production with out any compromise on quality.

Products : Mfrs of Printed Entrance Mat, Inlaid Mats, Rubber Moulded Mats, Hollander Mats, Area Rugs, Special Mats, Geo Textiles, Coir Mattress, Textiles, Machine Paper Rolls.

Post Box No: 56, Power House Road, Cherthala - 688524,
Kerala, India. Phone : 91-478 -3090488 / 2814905
Mobile : 91-9447294556, Fax : 91-478 -2812006 / 294556
Email : info@globaleximindia.net, www.globaleximindia.net

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Products : Mfrs of Rubber Mats, Floor Mats

Industrial Development Plot, Poovanthuruthu,
Kottayam - 686 012, Kerala, India
Phone : 91-481-2340760 / 2340770,
Fax : 91-481-2341761, Email : dolphinrubbers@dataone.in,
Web : www.dolphinrubbermat.com

Rubber Adhesives

Atlas Adhesives

Mfrs & Exporters of All kinds of Rubber Based Adhesives for the last 50 years supplying to various industries such as automobiles, leather, plastics, sports goods, foam, carpet laying, interior decoration, electronics, furniture and many others.

Products : Neosol Rubber Based Adhesive, Griptite Rubber Based Adhesive, Jyoti Kacha Solution, NeoSpray Sprayable Adhesive, Neo-PU Polyurethane Adhesive, Neosol Latex Adhesive

D - 13, Site - B, Surajpur Industrial Area, Greater Noida-201306, Uttar Pradesh, India
Phone : 91-120-2560596, Fax : 91-11-29211335
Email : info@atlasadhesives.com , www.atlasadhesives.com



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Products : Mfrs of Filter Adhesives, Filter Paper , Allied Resins, Epoxy Resin, Polyurethanes, Machinery related to filter industry, Rubber Components etc.

B - 39 / 19 - 20, Site - IV, Sahibabad Industrial Area, Ghaziabad - 201010, Uttar Pradesh, India
Phone : 91-120-3251250/2895089
Fax : 91-120-4110661, Email : info@chemfilindia.com
Web : www.chemfilindia.com

Rubber Raw Material Manufacturer, Supplier & Distributors

P. Dattani & Company

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Products : Chalk Powder, Whiting Chalk, Limestone

M.G. Road, Porbandar - 360575, Gujarat, India
Phone : 0091-0286-2242949, Mobile : 0091-9825712341
Fax : 0091-0286-2242949, Email : dattaniipbr@yahoo.com
Web : www.pdattaniandcompany.com

Tread Rubber Products

Rubfila International Limited

Rubfila International Limited (RIL) is a public limited company promoted by Rubpro.Sdn.Bhd., (RSB) Malaysia, along with Kerala State Industrial Development Corporation (KSIDC), to manufacture extruded Rubber Thread at New Industrial development Area, Kanjikode, Palakkad, Kerala

Products : Mfrs & exporters of Talc Coated Rubber Thread (TCR), Silicon Coated Rubber Thread (SCR), Food Grade Rubber Thread

New Industrial Development Area, Kanjikode, Palakkad-678 621, Kerala, India
Phone : 91-491-2567261, Fax : 91-491-2567260
Email : adara@rubfila.com , Web : www.rubfila.com

Linings & Coatings

Sakthi Rubber Lining Works

Sakthi Rubber Lining works established in 1992 was born out of commitment to meet the needs of Rubber Rollers for Printing, Packing & Allied Industries. With three decades of experience to his credit Mr. T. Moorthy, M. Raja Mohamed, and S.Karunanathi has directed the company to new are has keeping himself a breast with the latest technologies worldwide. A technology driven company is guided with philosophy of providing state of art Rubber Roller.The company lays tremendous emphaision reliability and customer support and has emerged as undistributed leader in its field continued up gradation of the machine has enabled the company to penetrate even in international market.

Products : Mfrs, suppliers,importers,exporters & distributors of Rubber Rollers

No.SS-20,SidcoIndustrialEstate, Ambattur (Behind Korattur Tiny Sector), Chennai-600 098, Tamil Nadu, India
Phone : 91-44-26350563 / 25504091
Mobile : 91-9884136786, Fax : 91-44-26253638
Email : info@sakthirollers.com , Web : www.sakthirollers.com

Footwear

Cochin Rubber Factory

Cochin Rubber Factory is a trusted name familiar to any new home seeker because of the credibility in its dealings all through the long 20 years that marked its glory. Great care is given to our dealings in order to concretely strengthen the relationship with our customers as well as the society. Each and every product of Cochin Rubber Factory is prepared by highly experienced technicians consistent to the orders from our estimable customers. We make it a point to provide quick and efficient service in a time bound manner. Diversity with quality is what sets us apart from the rest.

Products : We manufacture all types of Designer Tiles Moulds, Tyre Flap, Hawai Sheets and Chapels and a host of other industrial and automobile rubber moulds all to suite your order

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Phone : 91-487-2426383, 2443460
Mobile : 91-9387112040/ 9495131060
Fax : 91-487-2443460, Email : trc_champion@sancharnet.in
Web : www.crfchampion.com

Reclaimed Rubbers

Talampally Rubbers Pvt. Ltd.

Talampally Rubbers Pvt. Ltd., is one of the young manufacturers

and exporters of Whole Tire Reclaim Rubber in the primary form of Sheet recognized in India. Established in 2006, company deliver the products with specified quality, appropriate quantity and timely transit/shipment for both domestic and global end users under brand and dynamic leadership of Talampally Group management.Reclamation Plant situated in North Karnataka (India) with the latest equipment and technology. The company is serving a vast range of market segments from cycle tire, foot wear, battery containers, coir mats, conveyor belts/industrial belts, fire flaps and rubber moulded components.

Products : Mfrs. & Exporters of Whole Tire Reclaim Rubber - Whole Tire Superfine TRPL -SR, Whole Tire Fine TRPL - 100, Whole Tire Coarse TRPL - 101, Rubber Crumb 30/40.

Plot No: 139, 140, 141, Kolar Industrial Area, Bidar-585 401, Karnataka, India Phone : 91-8482-232771
Email : talampally@yahoo.co.in, www.rubbertalampally.com

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- Metal to Rubber Bonded Parts,
- Gaskets, Rubber Componentes
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- Electricals & Electronics,
- Extruded Profiles, Sleeve,
- Chord, Strips e.t.c.
- & Fluoro Elastomer Products for
- Mechanical Seal Mfrs.




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Glossary of Polymers

Below is a list of terms relating to the manufacture of polymers and definitions of these, as well as abbreviations for the most common rubber polymer types.

Accelerator

Chemical added to increase curing rate.

Acrylonitrile

Unsaturated hydrocarbon containing nitrogen (CH₂CHCN), part of nitrile rubber, NBR.

Activator

Chemical to activate the curing reaction.

Antioxidant

Chemical to reduce oxidation.

Antiozonants

Chemical to reduce ozone cracking.

Bladder

Inflatable bladder, used to form the tire in the mold during curing.

Blowing agent

Chemical to make sponge rubber, forming the cells by release of gas.

Butadiene

Unsaturated hydrocarbon (CH₂CHCHCH₂) part of butadiene rubber, BR.

Calender

Machine with two or more rolls for making sheets.

Chloroprene

Base of chloroprene rubber, CR, containing chlorine.

Coagulate

A substance that is precipitated from a liquid.

Copolymer

A polymer made of two or more monomers.

Cord fabric

Used as reinforcement of rubber products like tires. Made of rayon, polyamide or polyester,



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Abbreviation of Rubber polymers

- ACM, Acrylic rubber
- BIIR, Bromo butyl rubber
- BR, Butadiene rubber
- CIIR, Chloro butyl rubber
- CM, Chlorinated Polyethylene rubber
- CR, Chloroprene rubber
- CSM, Chlorosulphonated polyethylene rubber
- ECO, Epichlorohydrin rubber
- EPDM, Ethylene Propylene Diene rubber
- FPM, Fluoro rubber

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Glossary of Rubber Terms

Acrylate Rubber

General term used to describe a class of elastomers based on acrylate esters.

Adhesion

The state in which two surfaces are held together by interfacial forces which may consist of molecular forces or interlocking action or both.

API - Active Pharmaceutical Ingredient The substance or

substances in a drug product which is responsible for the indicated use.

Biaxial Tension

Biaxial tension is produced through deforming a specimen simultaneously in two directions.

Butyl

ASTM designation IIR, for isobutylene-isoprene rubber. Butyl rubber is the common name for such materials.

Calender

A precision machine equipped with three or more heavy, internally heated or cooled rolls, revolving in opposite directions, which is used for the highly accurate continuous sheeting or plying up of rubber compounds and fractioning or coating of fabric with rubber compounds.

Calendering

Material is passed through a series of rollers; the resulting surface depends on the pressure exerted by the rollers or their temperature, composition, and surface designs, also on the type of coating or glaze previously applied to the material to be calendered.

Carbon Black

Carbon black is a material, today usually produced by the incomplete combustion of petroleum products. Carbon black is a form of amorphous carbon that has an extremely high surface area to volume ratio and therefore was one of the first nanomaterials to find common use. It is similar to soot but with a much higher surface area to volume ratio.

Carbon black is often used as a pigment and reinforcement in rubber and plastic products.

Chemotherapy Drug

Treatment of a disease (usually cancer) by a combination of chemical substances or drugs, that kill or impair disease-producing organisms in the body.

Chromatogram

Data obtained from a chromatography experiment. Typically plotted as intensity as a function of retention time.

Chromatography

Chemical Manufacturing and Controls
The description of drug product composition and manufacturer submitted in an IND.

CMC

Chemical Manufacturing and Controls. The description of drug product composition and manufacturer submitted in an IND.

Coefficient

In mathematics, a coefficient is a constant multiplicative factor of a certain object.

Coefficient of Friction

Between rubber and dry surfaces, it is the ratio of the force required to move one surface over the other or the force pressing two surfaces together.

Composite

A homogeneous material created by the synthetic assembly of two or more materials (a selected filler or reinforcing elements and compatible matrix binder) to obtain specific characteristics and properties.



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3.	Perkadox 1440 Bpd (Smellless Peroxide)	Di(Tert-Butylperoxyisopropyl) Benzene
4.	Perkadox Pd 50 Sps	Di(2,4-Dichlorobenzoyl)Peroxide
5.	Trigonox 101	2,5-Dimethyl-2,5-Di(Tert-Butylperoxy) Hexane
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Polychloroprene

Grade	Mooney Viscosity	Crystallization Rate	Type
Polychloroprene 110	49 ± 5	Low	Mercaptan
Polychloroprene 210	43 ± 4	Medium	Mercaptan
Polychloroprene 211	39 ± 4	Medium	Mercaptan
Polychloroprene 711	48 ± 6	Medium	Sulphur

Ethylene-propylene-diene rubber (EPDM)

Grade	Mooney Viscosity	Ethylene content	ENB content
EPDM 5450	46 ± 5	52 ± 4	4.3 ± 0.6
EPDM 5455	46 ± 5	55 ± 4	4.3 ± 0.6
EPDM 5567	46 ± 5	66 ± 4	5.1 ± 0.8
EPDM 6470	59 ± 5	70 ± 3	4.7 ± 0.6

Butadiene-acrylonitrile copolymer (NBR)

Grade	Mooney Viscosity	Acrylonitrile content	Specific gravity
NBR 1846	45 ± 5	18.0 ± 1.0	0.93
NBR 2845	45 ± 5	28.0 ± 1.0	0.96
NBR 3445	45 ± 5	34 ± 1.5	0.97
NBR 3965	65 ± 7	39 ± 1.0	0.99

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Rubber Technology

Latex Processing

There can be no doubt that latex was used by the earliest Mesoamerican tribes since we know that they manufactured balls from dry rubber for the ball game and Torquemada, in "De la Monarquia Indiana" (1615), wrote about their use of latex to waterproof fabrics used for clothes and head coverings. He also mentioned waterproof boots and it is well established that Amazonian natives used to make protective shoes by using their feet as formers. After a series of dippings in latex, with a short drying period between each, a strong shoe could be peeled from the feet, smoked to sterilize it and used as necessary to provide protection against rough ground or insect bites.

A century and more later Charles Marie de la Condamine described how natives made rubber bottles and syringes by coating clay cores with several layers of latex, drying between each dipping and then breaking out the core when the required thickness was reached... The name given to the latex gatherers even today is Seringuerio, meaning 'maker of syringes', and clearly indicates the importance of this material to their lifestyle. At the end of the 18th century, Silvestre Diaz de la Vega, the Director General of Tobacco in Mexico wrote extensively about the use made of latex in that country. In 1785 his memorandum included the observations that latex is an adhesive and can be used on any textile. Pieces of cloth were covered with up to 10 layers of latex and the material could be used for making capes,



cloaks, boots, shoes, carriage tops all without the use of a tailor as the seams were simply cemented together with the latex. He himself designed and made containers to transport mercury from Mexico to Spain. These consisted of two layers of chamois leather bonded together with a latex film - some 20 years before Macintosh produced his eponymous triple-layered material. In 1799 Vega wrote that "latex would become one of the most useful products of the vegetable kingdom" he bemoaned the fact that two centuries had passed since Hernandez described the material and yet not a single step has been advanced in benefit of commerce, medicine or the arts" The application of caoutchouc is limited to date to a small number of contrivances which are smeared with it to guard against humidity and a few other items that are used in the land where it exists - all being of little importance and less value".

In 1791 Peol (BP1801) described the preparation of waterproof cloth using a rubber solution in turpentine but included latex in his patent coverage whilst Hancock, from 1824 onwards, occasionally referred to his attempts to use latex for a variety of applications but his attempts to obtain regular supplies of the material were thwarted by its decomposition and auto-coagulation. Goodyear's one recorded use of the material was actually by one of his assistants who dipped a pair of trousers in latex and wore them for work when the latex had dried. At the end of the day he was stuck to his trousers, the trouser legs were fused together and the whole was firmly adhered to his bench. Goodyear does not describe how he was freed but noted that the adhesiveness of rubber must be an intrinsic property of the material rather than a result of poor manufacturing technique. In 1846 Parkes invented the 'cold cure' process whereby rubber-coated fabrics or thin films could be vulcanized using a solution of sulphur chloride and in 1878 Abbott patented the use of sulphur chloride gas which avoided the problems associated with the use, recovery and disposal of solvents.

Why then did latex technology in the west lag so far behind that of 'dry rubber', particularly since the early dry rubber technology often required that rubber to be dissolved to give, if not latex, at least a solution which could be handled more easily than the raw dry rubber?.. to be continued....

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Rubber Technology

TPS Classification

Thermoplastic elastomers (TPEs) combine the good processing properties of plastics with the elastomer properties that are so important for product developers and designers. Thermoplastic elastomers consist of thermoplastic end blocks and an elastic midblock. As regards their structure and behaviour, they belong to a material class that is positioned between plastics (thermoplastics) and rubber (elastomer) and have gradually been developed into a material class of their own.

They enhance products and enable processors to position their products ahead of those of their competitors.

In addition, TPEs also fulfil technical functions that have up to now only been available with elastomers. The use of TPEs does not only offer a range of product advantages but also has significant commercial benefits for processors. Similar to thermoplastics, TPEs become plastic when heated and elastic when cooled down again. In elastomers, this behaviour is due to chemical cross-linking. In TPEs, it is the result of physical cross-linking, and any changes in behaviour caused by heating are reversible. When the material is cooled down, new cross-links are established, which bond the elastic blocks into rigid three-dimensional networks. This means that TPEs show elastic properties that are similar to those of elastomers, while allowing for repeat deformation and recovery as known from thermoplastics. Thermoplastic elastomers are thus free-flowing and formable.

The use of TPEs offers a number of key advantages:

- Easy thermoplastic processing
- Short cycle times
- Low energy consumption
- Thermal stability, providing large processing window
- Multi-component processing and thus reduced assembly costs
- Combination of two materials (hard-soft composite)
- 100% recyclable
- Versatile dyeing options, including colour effects for more advanced design

TPS

A TPE based on styrene block copolymers are commonly referred to as a TPS. TPS can be further classified in SEBS, SBS, SEPS and SEPS-V. KRAIBURG TPE produces mainly SEBS (styrene-ethylene-butylene-styrene) compounds.

In this material, styrene end blocks are attached to an elastic segment (e.g. ethylene-butylene). SEBSs are used in adhesives such as hot-melts, or as the soft component in 2C injection moulding materials.

Classification

Polymers are classified in four groups, based on their network structure: thermoplastics, elastomers, duroomers and thermoplastic elastomers (TPEs). Thermoplastics consist of long linear one-dimensional polymer chains that are held together by weak physical forces such as intermolecular interactions. When exposed to heat or shear forces, they become free-flowing and formable. When cooled down, the material becomes again rigid. As this process is purely physical, it can be repeated at any time and as often as necessary (example: polypropylene). Duroomers are tightly cross-linked polymers that do not melt under high temperature and retain their network structure. At room temperature, they are hard and brittle (example: epoxy resin). Elastomers, often referred to as rubbers, are chemically cross-linked and extremely elastic. They are not formable after vulcanisation. The macro-molecules are cross-linked and coiled. The material can be temporarily deformed by compression and stress forces and returns to its original structure as soon as the forces are no more applied (example: NR). Thermoplastic elastomers consist of thermoplastic end blocks (e.g. polystyrene) and an elastic midblock (e.g. ethylene-butylene). This makes the material free-flowing and formable. When the material is cooled down, physical cross-links are established, which bond the elastic blocks into rigid three-dimensional networks. Thermoplastic elastomers thus have the properties of elastomers but can be processed in the same way as thermoplastics.

The use of TPEs offers a number of key advantages: Easy thermoplastic processing Short cycle times Low energy consumption Thermal stability, providing large processing window Multi-component processing and thus reduced assembly costs Combination of two materials (hard-soft composite) 100% recyclable Versatile dyeing options, including colour effects for more advanced design

TPEs are used in a versatile range of applications in various sectors, meeting the industry-specific requirements. They are for example used for control elements in car interiors, for exterior window trims and "under-the hood" seals. TPEs are also found in industrial products such as tool handles and cable sheathing. In consumer goods, TPEs are used in toys, sports equipment, packaging and hygiene products such as toothbrushes and razors. For medical applications, compounds that meet particularly stringent requirements have been developed. Medical TPE products include drip chambers, seals and medical hoses.



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Rubber Selection A Guide to Outline Properties

The information below is intended to give a broad overview of the properties of a number of different rubbers. This is intended to aid in the selection of rubbers for particular service conditions. A guide of this sort is only intended as a first step in selection - mainly to eliminate materials which are obviously unsuitable. Beyond this, factors such as component size can have a

major influence on properties such as oxidation resistance and oil resistance. Also, the properties of a vulcanized rubber can be significantly influenced by details of the compounding. Practical materials will have, in addition to the base polymer, fillers, anti-degradants, crosslinking agents, accelerators etc. All of these can have an influence on the physical and chemical stability of the finished material. In critical applications it is therefore advisable to give considerable thought, or take advice, on the formulation of the compound. As the potential for 'tailoring' compound to specific

applications is essentially limitless, it is often advisable to carry out preliminary qualification tests to ensure that the compound chosen will perform as intended.

Trade names are given to assist in recognition, but the list is necessarily only partial, and is given in alphabetical order. Trade names are generally registered and/or copyright and are indicated by an asterisk after the name - see below.

Abbreviations used are those based on latest ISO recommendations. The temperature ranges quoted are only a rough guide, because the temperature range possible will depend upon the particular application, and may depend on detailed differences between alternative versions of the same rubber.

In some cases greater extremes of temperature can be tolerated than indicated below.

The information given below is given in good faith, but MERL can accept no responsibility for the information. Normal screening procedures should be operated before any material is selected for service.

Owners of trade Names

Trade Names are distinguished in the tables below by being listed only under the heading 'Trade Names', and are each followed by an asterisk. This list indicates the owners of registered trademarks. Because of mergers/take-overs the name of the company indicated against the proprietary/trade name may not always be the current owner. We will be pleased to make any changes of which we are informed.

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Chemraz	- Greene Tweed and Co
Dai-el	- Daikin
Dutral	- Enichem
Estane	- B F Goodrich
Europrene	- Polimeri Europa
Fluorel	- Dyneon
Genthane	- General Tire and Rubber
Hycar	- B F Goodrich
Hytemp	- B F Goodrich
Kalrez®	- DuPont Dow Elastomers
Kel-F	- Daikin
Krynac	- Polysar
Nipol	- Zeon Chemicals Inc.
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Hardness Available	: 40-80 Shorea
Resistance To Temperatures	: -70c Upto +180c
Short-Time Peak Temperature	: - Up To +225c
Tensile Strength in Kp\Sq.Cm(N\Sq.Mm)	: 80(8)
Tensile Elongation In %	: 250

Properties

Abrasion	: Moderate
Resistance to Flex Cracking	: Bad
Tensile Strength	: Bad
Flexibility	: Good

Strength of Structure	: Moderate
Resistance to Light	: Excellent
Resistance to Oxidizing	: Very Good
Resistance to Ozone	: Excellent
Resistance to Wear And Tear	: Bad
Weathering Effect	: Excellent

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Food Stuffs	: Excellently Suitable
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Rubber Types

The most common chemical elements in rubber are carbon (C) and hydrogen (H). The polymers of natural rubber are mainly built of these elements. In synthetic rubber these elements are products from the petrochemical industry.

Natural rubber (NR) - production and properties
The rubber tree grows in tropical climates and is cultivated in many countries. The biggest producers are Thailand, Indonesia and Malaysia, which combined

A tree with a good yield can give 30-35 grams of rubber per day. The contents of the cups are emptied into containers and transported to a rubber factory. Acetic acid is added to promote coagulation. To manufacture smoked sheets, the rubber is made into sheets in a mill, washed, dried, smoked and finally classified. With the exception of butadiene rubber, natural rubber has the best elasticity of all rubber types. It has very good resistance to abrasion and fatigue. Among the drawbacks are the material's poor resistance to ozone (weather) and oils and fuels.

Natural rubber is mainly used in the production of heavy-duty tires, vibration dampers, springs and bearings. For special purposes it is used in hoses seals, conveyor belts, coated fabrics and other products.

Styrene-butadiene rubber (SBR) - the most common type of synthetic rubber.

When the automobile industry developed, demands for rubber increased sharply. Many trials were made to produce a man-made rubber. The first synthetic rubber could not match natural rubber, but in the course of time several rubber types were developed that had many properties comparable with natural rubber, in some cases even better.

Styrene-butadiene rubber, the most common and cheapest synthetic rubber, serves as an example of the manufacturing principles. The basic material is derived from petroleum (oil) which is a fossil formation from organisms that have been dead for millions of years. In the distillation process at the oil refineries, styrene and butadiene are produced, which are then used as raw materials for the production of styrene-butadiene rubber.

The first step is to let styrene and butadiene react together. The new material consists of about 25% styrene, with butadiene making up the remainder. The result is a synthetic rubber that in principle has the same properties as natural rubber. Heat resistance is better but low temperature flexibility and tensile strength are less than for natural rubber. At Trelleborg, around 60% of the polymers used are synthetic, while 40% is natural rubber.

Styrene-butadiene rubber is used in many of the same products as natural rubber. It is also used to cover different types of hose and in a number of other products. For practical reasons, abbreviations of the various rubber types have been internationally approved. These abbreviations are used in this presentation.

Isoprene rubber (IR) - very much as natural rubber

Isoprene rubber has the same chemical structure as natural rubber (polyisoprene). However, it does not contain proteins, fatty acids and the other substances that are present in natural rubber. The physical properties of isoprene rubber are in general somewhat inferior to those of natural rubber but, in principle, the two types are very alike. Isoprene rubber is used in the same type of products as natural rubber.

Butadiene rubber (BR) - the most elastic rubber type

Butadiene rubber is polymerized butadiene. It is used in blends with other rubber types for improved elasticity, wear resistance and low temperature properties. A typical application is a blend of butadiene rubber and natural rubber in truck tires.



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Rubber Types

SPECIAL RUBBER TYPES

The above mentioned rubber types are so-called general purpose. Many other types are available, each with its own special properties. The most common special types in our products are ethylene-propylene, butyl, chloroprene and nitrile rubber.

Ethylene-propylene rubber (EDM/EPDM) - for many purposes

That third monomer makes it possible to cure the rubber with sulfur since it introduces double bonds in the structure, thereby changing the structure to an unsaturated polymer. Since ethylene-propylene rubber does not crack outdoors (good ozone resistance) it is widely used for seals in buildings and in the automotive industry. Steam hose, high temperature-resistant seals and roll covers are other applications.

Butyl rubber (IIR) - when low gas permeation is needed

Products used to prevent gases from passing through the material are based on butyl rubber. The polymer consists of isobutene with a minor part of isoprene. The isoprene makes the rubber unsaturated and possible to vulcanize. The gas permeability increases with increased temperature for all rubber types, but for butyl rubber it is very low, up to 160-175 F. Tire inner tubes are made of butyl rubber.

Chloroprene rubber (CR) - resistant to oil and weather

Most chloroprene rubber types consist solely of polymerized chloroprene monomers. The polymer has a good resistance to the outdoor climate and reasonable oil resistance. It is therefore used in products exposed to oil-based fuels and weather.

Not Only Rubber

A rubber compound used for product manufacturing contains much more than a polymer as shown by the following list:

Fillers

Carbon black is used to reinforce the compound. Whiting or clay can be used to extend the compound.

Vulcanizing agents

Besides sulfur, accelerators are used to achieve a higher curing rate, and activators contribute to an initiation of the curing process.

Ageing protectors

Antioxidants and antiozonants are used to protect the rubber from oxidation and ozone cracking.

Softeners

To regulate the hardness and improve the processing of a rubber compound, for example, mineral oils, or ester, plastizers are used.

Special ingredients

Pigments in light-colored compounds, antistatic lubricants to reduce static electricity, blowing agents for sponge rubber, flame retarders to improve non-inflammability, etc.

Reinforcement

To increase mechanical strength, many rubber products are reinforced. Typical reinforcement materials are textile fabrics for protective clothing, textile and steel cord in tires and hoses, as well as glass-fiber cord in certain special hoses.

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