JAY ELASTOMERS PVT. LTD

A PRESENTATION

A COMPANY WHICH OFFERS CUSTOMISED SOLUTINS

www.jayelastomers.com

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RUBBER ROLL

A rubber roll is a cylindrical object made of rubber or a combination of rubber and other materials. It is commonly used in various industrial and mechanical applications for its durability, flexibility, and resistance to wear and tear.

Rubber rolls are often found in:

- **Printing**: Used in printing presses as rollers to transfer ink onto paper.
- **Conveyor Systems**: Found in factories or production lines for transporting materials
.
- **Textile Industry**: Assists in fabric processing and finishing.
- **Agriculture**: Used in farming machinery for tasks like planting or harvesting.

RUBBER ROLL COVERINGS

Roll linings can utilize both natural and synthetic rubbers, depending on the specific application and requirements. Here are some common types:

Natural Rubbers

1. Natural Soft Rubber: Known for its flexibility, resilience, and abrasion resistance, it's suitable for applications like slurry tanks, pipe linings, and pump linings.
2. Hard Natural Rubber: Offers chemical resistance and is often used in storage tanks and reactors.

Synthetic Rubbers

1. Neoprene (Polychloroprene): Resistant to heat, ozone, and chemicals, making it ideal for water boxes and desalination plants.
2. Butyl Rubber: Excellent for high-temperature chemical resistance.
3. Styrene-Butadiene Rubber (SBR): Known for wear resistance and stability.
4. Hypalon (Chlorosulphonated Polyethylene): Offers exceptional resistance to chemicals and weathering.

Each type has unique properties tailored to specific industrial needs. If you'd like, I can help you explore more details about their applications!

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RUBBER ROLL APPLICATIONS

Rubber rolls have a wide range of applications across different industries due to their versatility and durability. Some key applications include:

1. Printing Industry

•Used in offset and flexographic printing machines for transferring ink evenly onto the substrate.

2. Textile Industry

•Assist in fabric handling, dyeing, and finishing processes by providing smooth and controlled movement.

3. Food Industry

•Found in food processing machines for rolling, peeling, or pressing food items while ensuring hygiene and safety.

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RUBBER ROLL APPLICATIONS

4. Pulp and Paper Industry

•Used in paper production to manage the paper sheet's smooth movement and to apply coatings or finishes.

5. Conveyor Systems

•Integral to industrial conveyors, helping in material transport across manufacturing and assembly lines.

6. Agriculture

•Employed in farming machinery for operations like seed planting and crop harvesting.

7. Metal and Woodworking

•Aid in polishing, coating, and treating surfaces.

Their adaptability makes them essential in industries where precision, flexibility, and durability are critical.

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SPECIALIZED ROLLS

Specialized industrial rolls are custom-engineered rollers designed for specific applications across various industries. These rolls are tailored to meet unique requirements such as temperature resistance, load-bearing capacity, surface texture, and durability. Here are some examples:

1. Rubber Rolls

•Used in industries like printing, textiles, and food processing for smooth material handling and coating applications.

2. Polyurethane Rolls

•Known for their high resistance to wear and tear, these rolls are used in heavy-duty applications like steel mills and conveyor systems.

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SPEICLIZED ROLLS

3. Steel Rolls

•Common in metalworking and paper industries, these rolls are designed for high precision and strength.

4. Chrome-Plated Rolls

•Used in laminating, polishing, and coating processes due to their smooth and durable surface.

5. Silicone Rolls

•Ideal for high-temperature applications, such as in the plastics and packaging industries.

6. Specialty Coated Rolls

•These include rolls with plasma sprays, hard coatings, or other surface treatments for specific industrial needs.

Each type of roll is crafted to optimize performance in its intended environment.

JEPL AND RUBBER INDUSTRY

- JEPL entered in Rubber rollers manufacturing from 2013 onwards
- Have developed several compounds for various industries.

- Have developed compounds ranging from
  20 Shore A to 70 Shore D.

- Have established compounds for ISNR, NBR, SBR, CSM , SILICONE, CR, EPDM and EBONITE.

- Developed cost effective rollers for Textile , Paper, Steel, Plastic, Lamination, Printing and Plywood industries

Announcement

OTAKA Rubber Company

having significant presence at China, ,Taiwan, Indonesia,

- NOW

  Stands for Raw Material and Technical

  Assistance to relining activity of Otaka's complete

  proven range of Rubber rolls to India at

  JAY ELASTOMERS PVT. LTD.

  In marketing

  association with **JFE-Shoji-India.**

We are happy to serve you better and faster with personalised techno – commercial communication

尾高ゴム工業株式会社

JAY ELASTOMERS PVT.LTD.

Otaka rubber industry CO,.LTD.

Location 〒640-0413 (postal code)

Koudo 77-3 Kishigawa, Kinokawa city.

Estblishment May 12th,1924.

■Our products

Rubber rolls

Urethane products

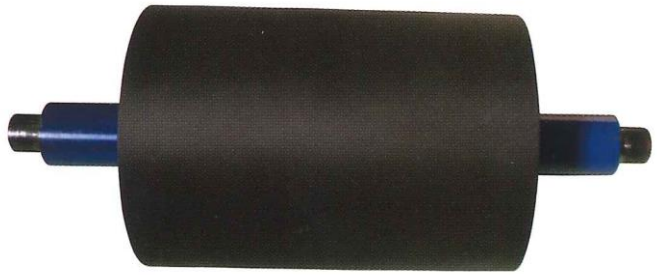
Otaka is
a pioneer for rubber rolls for industries.

: High friction : No slip

Recommendable usage For Bridle/Deflector/pinch rolls

Those products stand to high friction at any hostile conditions of oil and chemiclas,too.

II: High chemical resistance



Recommendable usage

Wringer roll,
Sink roll etc

Some products are very strong for chemicals.
Hydrochloric acid /Sulfuric acid/Nitric Acid/Hydrofluoric Acid
And Alkalis

III : Heat resistance

Our some products have strong heat resistance.

Recommendable usage

Bridle roll,
Deflector roll
Pinch roll
Snubber roll etc

Poly Ace

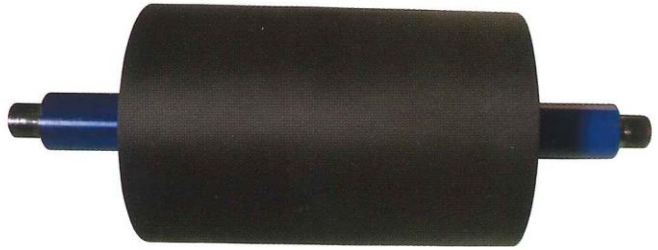
<Products>

High Power (based on NBR)	150℃
Poly Ace	180℃
High Hope	220℃
Hyper Hope	300℃
Ultra Tough Ace	150℃
Mineka V6(based on Urethane)	170℃

※Contact temparature

IV： Durability

Some products have strong durability and long life.
Rubber rolls are used to get damaged by iron plates.
Durability is very important factor to have long life.



Tough Ace

Recommendable usage

Wringer roll
Bridle roll,
Support roll etc

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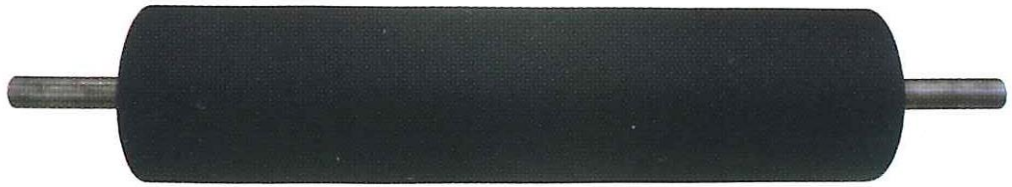


guts

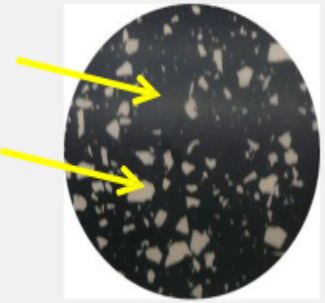
Recommendable usage

Wringer roll
Bridle roll,
Support roll etc

High Clutch 960

OTAKA RUBBER ROLL SINCE 1924
OTAKA PRODUCT

Base rubber (Black)
Grain rubber (Light yellow)



1. This is the special Rubber Roll of monolithical molding construction made of the base rubber with prominent elasticity and strength on which grain rubber is evenly dispersed.
2. Because of difference of hardness between base rubber and grain rubber of 5～20 JISA approx., when the roll is deformed by compression, thus resulted difference of pressure distribution between base and grain rubber stands to the high friction coefficient in contact with the metal strip.
3. When oil and/or liquid used for processing are retained on the strip surface, the grains of High Clutch Roll will scrape them off for removal so that high friction coefficient shall be maintained.

【 High Clutch U】

Ether High Clutch

Ester High Clutch

Made of high-grade composite material ;
On the special urethane rubber base with high abrasion resistant and high tear resistant properties, strong grain rubber particles are evenly dispersed and bound through our particular ratio balance mixing technology.

OTAKA RUBBER(JAPAN) PRODUCTS

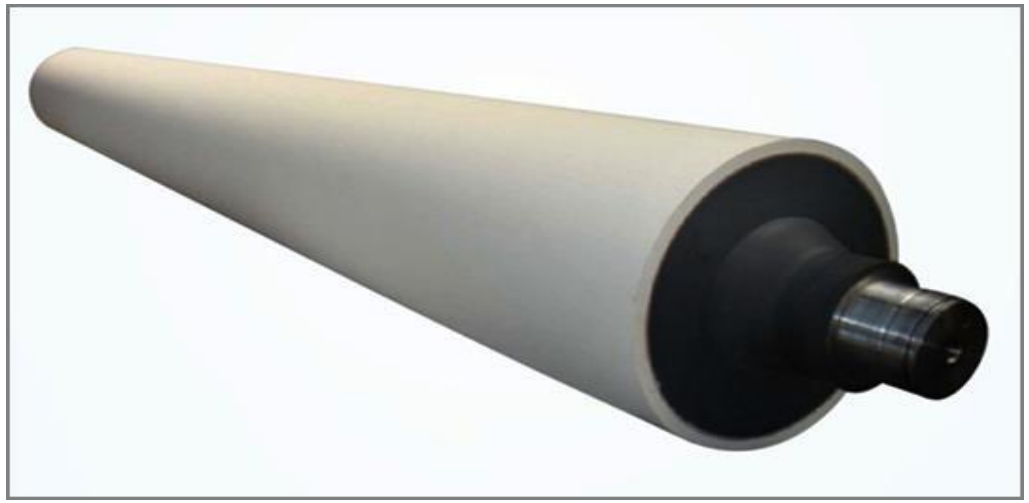
1

2

Fantastic Four!
Latest Japanese technology ...
Wringer/ Squeeze rolls with Ceramic embedded Rubber
Tough to get cut ,Yet to have great Acid / Alkali resistance!
Introducing first time in India
Proud to be Made in India

JAYPLON

Completely formulated in India ,with more than 50% Bio content
Acid / Alkali resistant Rolls used in Steel Plants / Color Coating Lines



Jayplon features

. **Ceramic nano particles distributed in PU resin**

. **Biopolyol with phenolic group crosslinked with Isocyanate**

- Tested for Hydrochloric acid 25 % at 80 degree
- Tested for Grinding after used in acidic areas
- Tested for Alkalis and rinse solutions
- High cut resistance being polyurethane backbone

Cost effective challenge with Customised Solutions!

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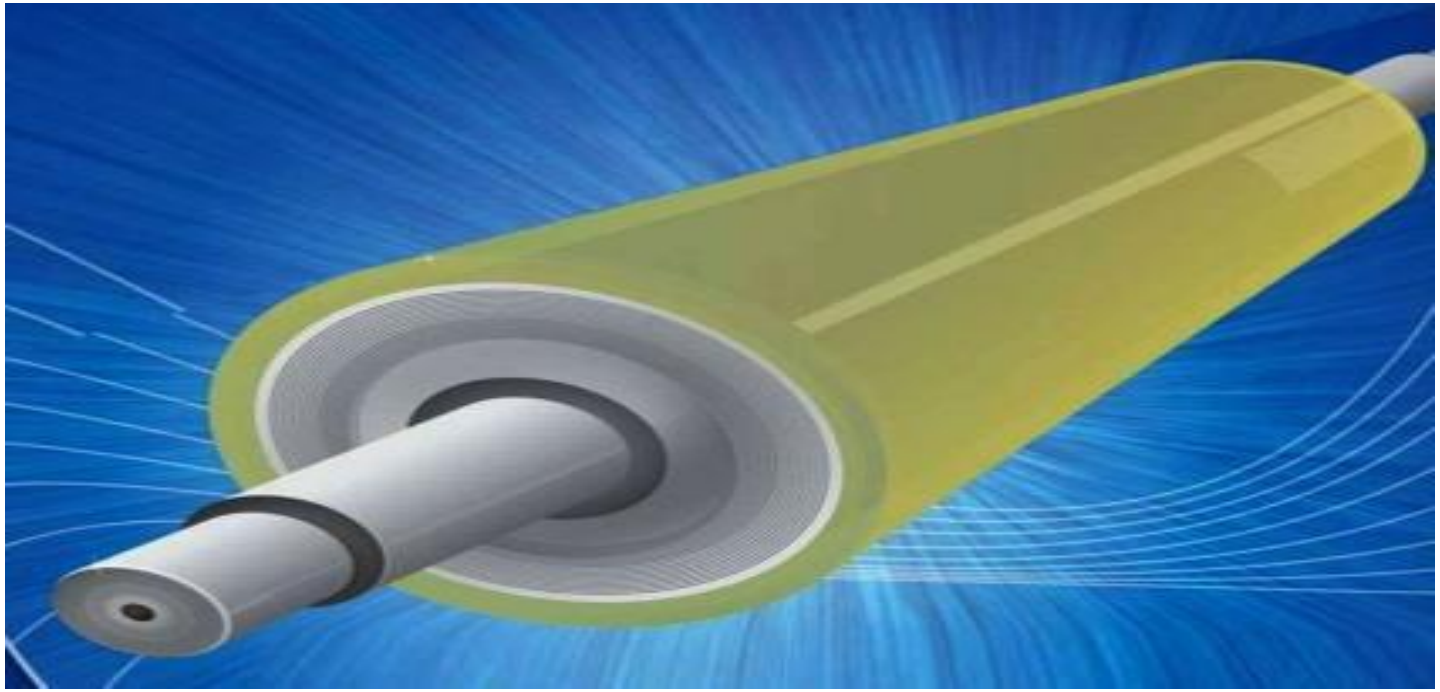
NEW PARTNERSHIP OTAKA - JAPAN

JURACOAT *Applicator Roller*



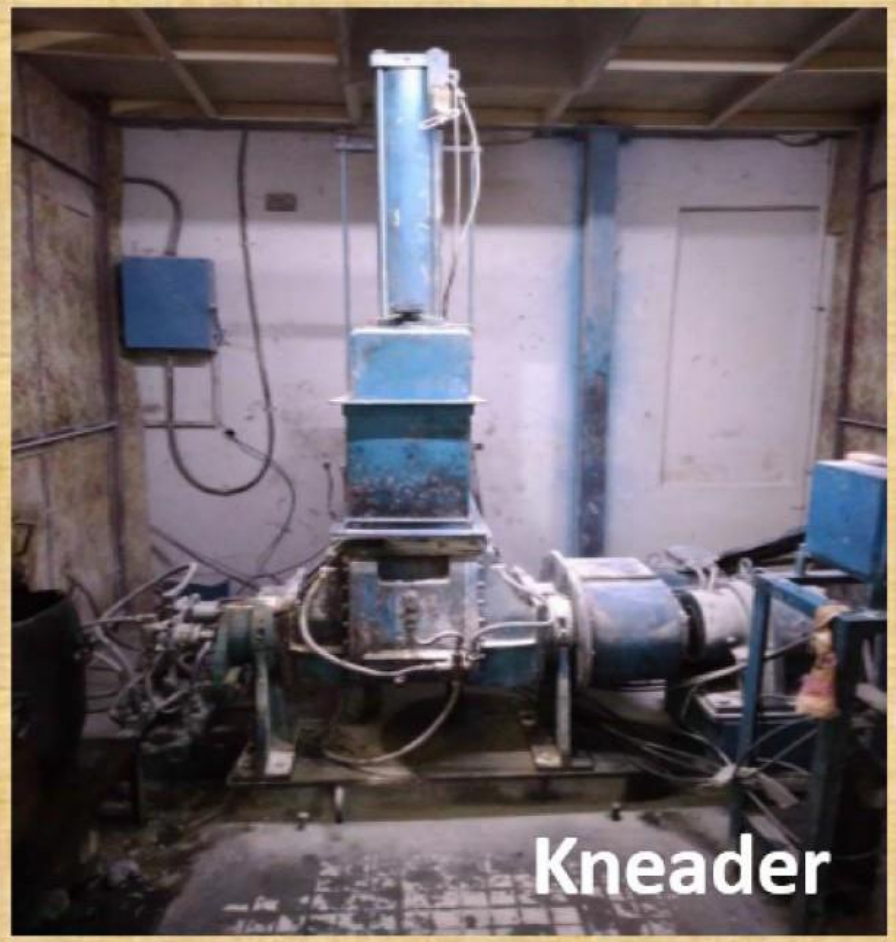
Juracoat Roll features

- **High suitable Metal Rolls Solvent Resistance**
- **Dynamically Balance at 300 RPM**
- **Shore Hardness range 20 to 62**

Selection : We have extensively researched the PU system to stand for solvents such as

- MEK
- Diacetone
- Roluene
- Xylene
- Cyclohexanone


Strip Building Machine


Kneader


Cylindrical Grinder

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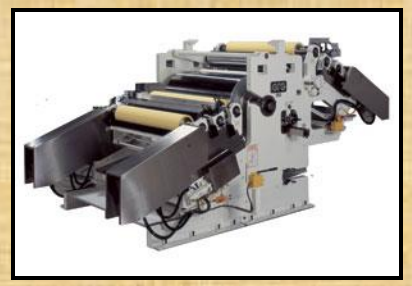
Steel Plants Exclusive

- Pinch Roll
- Bridle Roll
- Metering Roll
- Applicator Roll
- Deflector Roll
- Snubber Roll
- Support Roll



OEM

New Roll

Roll Coater / Slitter / Unwinder Equipments

Roller manufacturer

Rolls for PU Re-Rubberizing

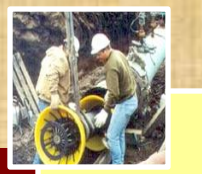
Re-rubberized Rolls

Coil Processing centre

JEPL ADVANTAGE

Partnership approach

- Finding correct Technical Specifications to read customer's requirements



Gemba Kaizen

- On field technical support for continuous improvement in quality of products

Chemistry Expertise

- Selection of correct type of Resin Formulations based on application

CAPACITY OVERVIEW

Capacity Overview:

In Terms of Roll: Avg 3000 Roll / 3 Shift Working of Polyurethane Coating activity only per Annum

In terms of Metric Tons Of Polyurethane Processing.....1900ROLL/YEAR.

-- In terms of No of rolls in Hypalon, NBR,SBR, Natural Rubber.....3000 ROLL/Year

-- In Terms of Metal Rolls for Rubber/PU coating as the case .....1000 ROLL/Year

Types of Coatings:

-- POLYURETHANE, Nitrile /Neoprene Rubber, CSM(Hypalon) Rubber,

Types Of Rolls : Wringer, Squeeze, Sink, Pinch Roll for CTL, ...With OTAKA Materials Applicator Rolls, Squeeze Rolls, Bridle, Pinch, Snubber Rolls ..... With Polyurethane and specially developed Bio Polyol /Ceramic embeded indigenously developed durable and dependable product

Other Steel Plant Supportive products.....Coil Car Pads, Expander Sleeve, Coil Rest Pads Passivation Tank Tile Sealant

COMPANY

- Name : JAY ELASTOMERS PVT. LTD. (JEPL)
- Location of Plant: PLOT NO. EL-78, A' BLOCK, ROAD NO.16,T.T.C. INDUSTRIAL AREA, MAHAPE M.I.D.C.NAVI MUMBAI 400710, MAHARASHTRA,INDIA
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- SSI Regd. No : 113481
- CIN NO. : U99999MH1998PTC113481
- GSTN NO. : 27AAACJ5645B1ZU
- **MSME / SSI : 27-021-12-00811**
- **UDYAM Reg. No : UDYAM-33-0002816**
- **Udyog Aadhar No. : 693652446634https**
- **LINKEDIN : www.linkedin.com/in/jay-elastomers-pvt-ltd-2326b7203/**
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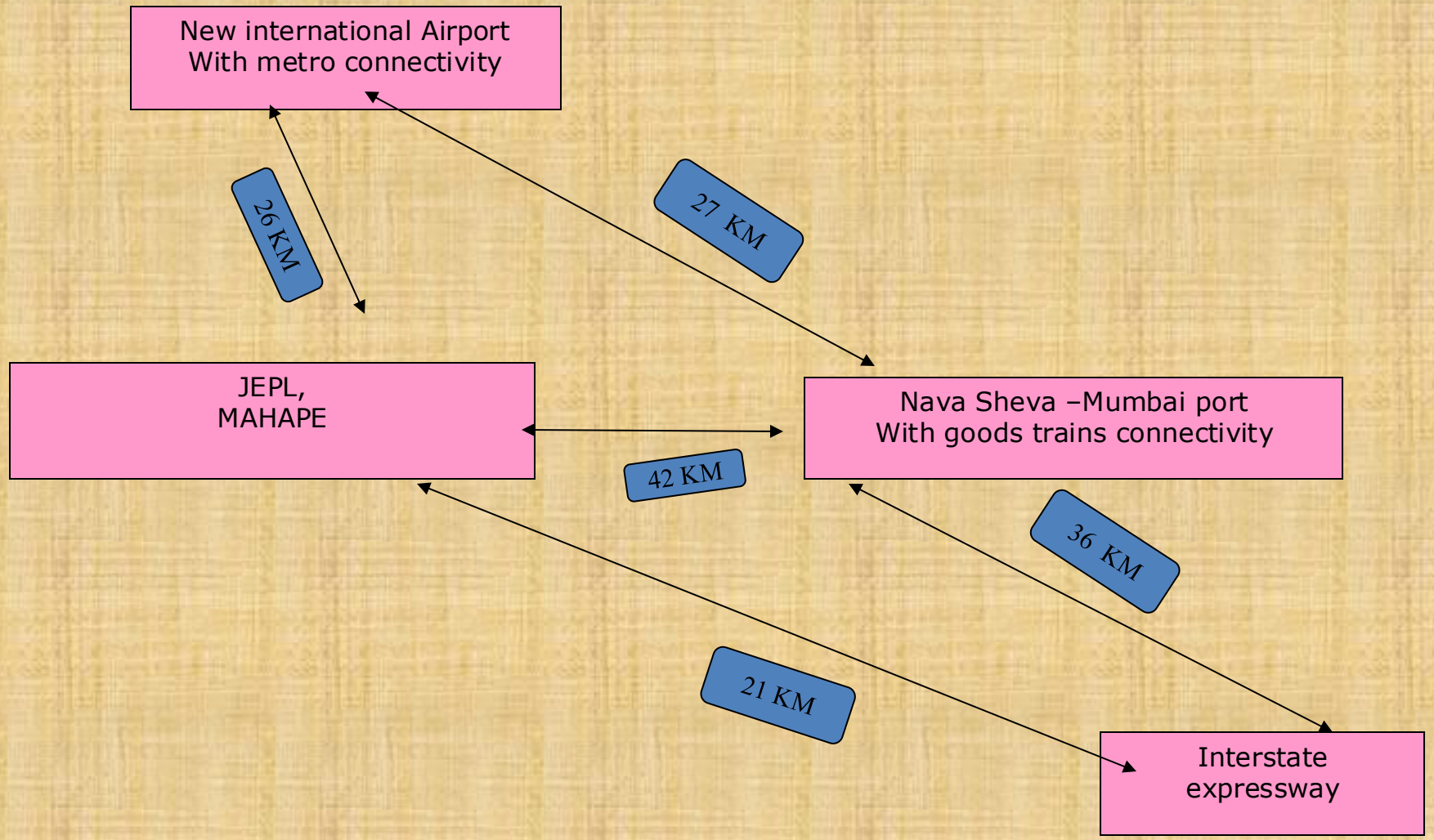
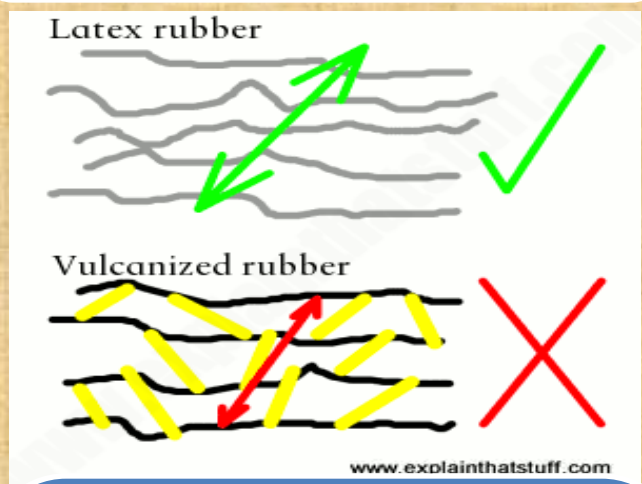
GEOGRAPHICAL LOCATIONS



Natural Rubber Biodegradable?

Rubber—the kind you get from a tree—starts off as white and runny latex. Even when it's set into a product, this latex-based, natural rubber is very squashy, pretty smelly, and not very useful. The kind of rubber you see in the world around you, in things like car and bicycle tires, is vulcanized: cooked with sulfur (and often other additives) to make it harder, stronger, and longer lasting.

Natural, latex rubber is easy to pull apart because the long polymer molecules it contains (made from carbon and hydrogen atoms) are only weakly linked together.



So what's the difference between raw, latex rubber and cooked, vulcanized rubber? In its natural state, the molecules in rubber are long chains that are tangled up and only weakly linked together. It's relatively easy to pull them apart—and that's why latex rubber is so stretchy and elastic. When latex is vulcanized, the added sulfur atoms help to form extra bonds between the rubber molecules, which are known as cross-links. These work a bit like the trusses you see on a bridge, tying the molecules together and making them much harder to pull apart.

When natural rubber is cooked with sulfur, the sulfur atoms form extra cross-links (shown here as yellow bars) "bolting" the molecules together and making them much harder to pull apart. This process is called vulcanization and it makes the strong, durable, black rubber we see on things like car tires.

JAY ELASTOMERS PRIVATE LIMITED

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THANK YOU