Coating Tomorrow's Innovations

Isoprene, natural (NR)

Rubber, urethane and other polymers are used to provide optimized coating properties for a substrate.

Polyisoprenes, natural rubber, and synthetic rubber are noted for outstanding resilience, resistance to tear and abrasion, excellent elasticity, and flex fatigue resistance. Polyisoprenes also have excellent tensile strength characteristics and can operate in low-temperature environments. Polyisoprenes are not recommended for environments that contain high heat, ozone, sunlight, petroleum, or hydrocarbon.

Natural rubber, when compared to synthetic, provides slightly better properties in tensile strength, tear resistance, compression set, and flex fatigue resistance.

General Polymer Characteristics			
Abrasion Resistance	Excellent	Gas Permeability	Fair
Compression Set	Excellent	Low Temperature Flexibility	Excellent
Elongation	Excellent	Tear Resistance	Excellent
Flame Resistance	Poor		

General Properties
Excellent physical properties, including abrasion and low temperature resistance, poor resistance to petroleum-based fluids

Resistant to
Most moderate chemicals, wet or dry, organic acids, alcohols, ketones, aldehydes

Attacked by
Ozone, strong acids, fats, oils, greases, and most hydrocarbons

At Trelleborg, our eyes are on tomorrow as our in-house expert technical teams work in partnership with an increasing range of customers to bring industry-changing ideas to actualization with coated materials– whether it's your concept or ours.
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