

Natural Rubber, Not Vulcanized (NR, IR, Polyisoprene)

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE)

Material Notes:

Natural rubber is polyisoprene. Chemical and environmental resistance and mechanical properties are improved through crosslinking (vulcanizing), usually through treatment with sulfur. Natural rubber usually withstands polar organic solvents (alcohols, ketones, aldehydes), organic acids, and mild chemicals. Its is adversely affected by most hydrocarbons, oil/grease/fat, strong acid, and ozone.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Natural-Rubber-Not-Vulcanized-NR-IR-Polyisoprene.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in ³	Uncompounded

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	30 - 90	30 - 90	Depends on compounding
Tensile Strength, Ultimate	>= 27.6 MPa	>= 4000 psi	Reinforced
Elongation at Break	500 %	500 %	Reinforced

Thermal Properties	Metric	English	Comments
CTE, linear	666 µm/m-°C	370 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	0.450 J/g-°C	0.108 BTU/lb-°F	
Thermal Conductivity	0.140 W/m-K	0.972 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	50.0 °C	122 °F	
Minimum Service Temperature, Air	-50.0 °C	-58.0 °F	
Glass Transition Temp, Tg	-70.0 °C	-94.0 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.519	1.519	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Dielectric Constant	2.6	2.6	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Dielectric Strength Electrical Properties	17.0 kV/mm Metric	432 kV/in English	Comments
Dissipation Factor	0.0020	0.0020	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

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