

ATG s.r.l. HNBR Hydrogenated Nitrile Butadiene Rubber

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

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATG-srl-HNBR-Hydrogenated-Nitrile-Butadiene-Rubber.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.960 g/cc	0.960 g/cc	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50 - 95	50 - 95	
Tensile Strength, Ultimate	8.00 - 24.0 MPa	1160 - 3480 psi	
Elongation at Break	150 - 750 %	150 - 750 %	
Rebound	30 - 45 %	30 - 45 %	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	170 °C	338 °F	
Minimum Service Temperature, Air	-45.0 °C	-49.0 °F	

Descriptive Properties	Value	Comments
Abrasion Resistance	medium	
Chemical Resistance to Animal and Vegetable Oils and Greases	high	
Chemical Resistance to Aromatic Hydrocarbons	low	
Chemical Resistance to Chloride Solvents	low	
Chemical Resistance to Distilled Water	high	
Chemical Resistance to Ketones	none	
Chemical Resistance to Maximum Concentrated Alkalis (at 50°C)	high	
Chemical Resistance to Medium-High Concentrated Acids (at 50°C)	none	
Chemical Resistance to Mineral Oils and Aliphatic Hydrocarbons	high	
Compression set at 100°C	high	
Impermeability at gas (Oxygen and Nitrogen)	high	

Resistance to Flame Descriptive Properties	Value	Comments
Resistance to Heat Aging	high	
Resistance to Low Temperatures	medium	
Resistance to Ozone and Weathering	medium	
Tear Strength	high	

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