

Hydrogenated Nitrile Rubber Sheetting HNBR Datasheet

Product Code: RC0364

Product Description

Our hydrogenated nitrile HNBR is a premium grade material that offers superior resistance and physical properties compared to our other nitrile material grades. Also known as saturated nitrile, this material is produced by introducing hydrogen into the saturate of the nitrile material. We supply this material in a range of thicknesses from 0.5mm to 50mm as standard.



Available In -



Full Rolls



Cut to strip



Bespoke Gaskets

Technical Specification

Properties	Test Method	Values (FSP)	Test Method	Values (Metric)
Specific Gravity	DIN 53509	1.20 ± 0.05	ASTM D297	1.20 ± 0.05
Hardness (Shore A)	DIN 53505	70 ± 5	ASTM D2240	70 ± 5
Tensile Strength (min)	DIN 53504	1422 PSI	ASTM D412	100 kg/cm ²
Elongation at Break (min)	DIN 53504	200%	ASTM D412	200%
Compression Set (70°C/24hrs/25% set) (max)	DIN 53517	50%	ASTM D395	50%
Tear Resistance (angular) (min)	DIN 53515	250 lbs/inch	ASTM D624	45 kg/cm
Heat Ageing (72hrs at 70°C)			ASTM D573	
Temperature Range		-30°C to +150°C		-30°C to +150°C



The information contained on this product information sheet is to be used as guidance. The advice is given in good faith and does not constitute any guarantee or recommendation for suitability. The Rubber Company cannot be held liable for any damage caused by incorrect installation. We hereby reserve the right to change the technical information herewith without notification or prior agreement.

Change in Properties

Properties	Test Method	Values (FSP)	Test Method	Values (Metric)
Hardness (Pts)	-	+2 (Max)	-	+2 (Max)
Tensile Strength (%)	-	+5	-	5
Elongation at Break (%)	-	±10	-	±10
Volume Swell: At 70°C for 72hrs/in	-	-	ASTM D471	-
IRM No.901	-	1%	-	1%
IRM No.902	-	5%	-	5%
IRM No.903	-	10%	-	10%
Polymer Content (Hydrogenated Chemical Resistance)	-	100%	-	100%
Ozone	-	Excellent	ASTM D1149	Excellent
Dilute Acids and Bases	-	Excellent	-	Excellent
Concentrated Acids and Bases	-	Fair	-	Fair
Oils	-	Excellent	-	Excellent
Solvents	-	Good	-	Good
Colour	-	Black	-	Black



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