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Material Specification Sheet

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RHN 4G



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Black Nitrile Coated Nylon Diaphragm

General Information

High quality Nitrile coated both sides, complete with 1 ply nylon fabric reinforcement.

Excellent oil resistance.

Good resistance to solvents as well as dilute acids and bases.

Excellent temperature range.

NB: Care should be taken in selecting the most suitable quality for each individual application. Advice is available but the final responsibility remains with the customer.

Thicknesses Available (20mx1.4m)

0.25mm; 0.4mm; 0.5mm; 0.65mm; 0.75mm; 1mm; 1.2mm

Property	Test Method	Values FPS	Test Method	Values Metric Units
Specific Gravity	DIN 53508	1.30	ASTM D297	1.30
Hardness	DIN 53505	70 ± 5 SH A	ASTM D2240	70 ± 5 SH A
Tensile Strength (Kg/cm ²)	DIN 53504	1425 PSI	ASTM D412	80
Elongation at Break (Min)	DIN 53504	400%	ASTM D412	400%
Compression Set (70°C/24hrs/25% Set) Max	DIN ISO 815-1	30%	ASTM D395 METHOD B	30%
Tear Resistance (Angular) Min	DIN 53515	140 LBS/INCH	ASTM D624	25 KG/CM
Change in Properties				
Heat Ageing (72hrs@70°C)			ASTM D 573	
Hardness (PTS)		+ 4 (MAX)		+ 4 (MAX)
Tensile Strength (%)		+ 10 / -10		+ 10 / -10
Elongation at Break (%)		+ 10 / -20		+ 10 / -20
Volume Swell (72hrs @70°C)			ASTM D 471	
IRM Oil No 1		-2%		-2%
IRM Oil No 2		+ 4%		+ 4%
IRM Oil No 3		+ 13%		+ 15%
Polymer Content (Nitrile)		100%		100%
Chemical Resistance				
Ozone		Fair	ASTM D 1149	Fair
Dilute Acids and Bases		Good		Good
Concentrated Acids and Bases		Not Recommended		Not Recommended
Oils		Excellent		Excellent
Solvents		Good		Good
Temperature Range		-30° TO + 110° C		-30° TO + 110° C
Colour		Black		

****The information given above is based upon average values and is no way intended as a warranty. The purchaser is deemed responsible for determining the suitability of the product for any application. All data relating to suitable uses and description information concerning our products are compiled from research and are believed to be reliable but are provided for guidance purposes only. The Company holds no legal or contractual responsibility for information supplied****

