



**WILLIAM JOHNSTON
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Black Hydrogenated Nitrile 70° shore WJ213

Properties	Test Method	Values	Tested Method	Values
		FPS Units		Metric Units
Specific Gravity	DIN 53509	1.20 ± 0.05	ASTM D297	1.20 ± 0.05
Hardness	DIN 53505	70 ± 5 Sh A	ASTM D2240	70 ± 5 Sh A
Tensile Strength (min)	DIN 53504	1422 PSI	ASTM D412	100kg/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%
			Method B	
Tear Resistance (Angular) (min)	DIN 53515	250lbs/inch	ASTM D624	45kg/cm
Change in Properties				
Heat Ageing (72 hrs at 70°C)			ASTM D573	
- Hardness (Pts)		+2 (Max)		+2 (Max)
- Tensile Strength (%)		+5		5
- Elongation at Break (%)		±10		±10
Volume Swell: At 70°C for 72 hrs/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
Temperature Range		-35° to 160°C		-35° to 160°C
Colour		Black		Black

Failure to select the correct materials or products can result in damage to plant and equipment and personal injury. In specific applications, where critical conditions exist, we suggest you contact us, and we will consider with you the most suitable material or product. However, information supplied by William Johnston & Company Limited is intended only as technical co-operation and as a guide to the various uses of different products. No warranty is given in respect of information or recommendations by William Johnston & Company Limited which are only given for guidance and without any guarantee. The customer must satisfy themselves on the suitability of the material or product for the intended purpose. The correct fitting of products particularly is the responsibility of the customer.