



**WILLIAM JOHNSTON
& COMPANY LIMITED**

Glasgow Tel: +44 (0) 141 620 1666 | Inverness Tel: +44 (0) 1463 238 673
sales@williamjohnston.co.uk | www.williamjohnston.co.uk

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

Disclaimer
Please note, failure to select the correct materials or products we supply ("the Products") may result in damage to plant, equipment or property. In some instances, it may cause death or personal injury. We are not designers and do not give advice about design related matters concerning the Products. We can help and assist with the technical specifications for the Products. In specific applications, particularly where critical conditions exist, we will try to assist you within the limitations of the services that we offer. All information supplied by us is intended as technical co-operation outlining the specifications of the different Products which we supply. To the extent permitted in law, no warranty is given in respect of any information supplied by us. The customer must satisfy themselves as to the suitability of the Products for their intended application and use. The correct fitting of Products is the responsibility of the customer. Your statutory rights remain unaffected. Save in respect of death, personal injury or fraud, our entire liability to you, however arising from the supply of Products shall be limited to the £10M indemnity amount provided by our insurers.