



## WILLIAM JOHNSTON & COMPANY LIMITED

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### Black Nitrile to BS2751 BA50 WJ190

PROPERTIES	TEST METHOD	VALUES
		METRIC UNITS
DENSITY (Mg/m <sup>3</sup> )	BS 903: PART A1	1.15 ± 0.02
HARDNESS	BS903: PART A26	50 (+5-4) IRHD
TENSILE STRENGTH (MIN)	BS 903: PART A2	7.5 Mpa
ELONGATION AT BREAK (MIN)	BS 903: PART A2	450%
COMPRESSION SET (70°C/24 HRS/25% SET) (MAX)	BS 903: PART A6	25%
TEAR RESISTANCE (ANGULAR) MIN	BS 903: PART A3 (Z)	35 Kg/cm
RESISTANCE TO ACCELERATED AGEING – 168 HRS AT 70°C	BS 903: PART A19	
--- HARDNESS (Pts)	BS 903: PART A26	+ 10 (MAX)
--- TENSILE STRENGTH (%)	BS 903: PART A2	-10 (MAX)
--- ELONGATION AT BREAK (%)	BS 903: PART A2	-35 (MAX)
VOLUME SWELL: AT 40°C FOR 24 HRS/IN	BS 903: PART A16	
FUEL B		+30 (MAX)
RESISTANCE TO LOW TEMPERATURE IN °C AT WHICH THE STIFNESS SHALL NOT EXCEED 70 MPA	BS 903: PART A13	-30
ADHESION TO AND CORROSION OF METALS AT 70°C / 168 HRS	BS 903: PART A 37	MEETS REQUIREMENTS
POLYMER CONTENT (NITRILE)		100%
<b>ADDITIONAL INFORMATION -</b>		
CHEMICAL RESISTANCE		
--- OZONE	BS 903: PART A 43	FAIR
--- DILUTE ACIDS AND BASES	BS 903: PART A16	GOOD
--- CONCENTRATED ACIDS AND BASES		NOT RECOMMENDED
--- MINERAL OIL/PETROLEUM		EXCELLENT
--- SOLVENTS		FAIR
TEMPERATURE RANGE		-30° to +120°C
COLOUR	BLACK	
VOLUME SWELL: AT 70 C FOR 72 HRS/IN	VALUES	
IRM / ASTM OIL NO.1	- 3 %	
IRM / ASTM OIL NO.2	- 2%	
IRM / ASTM OIL NO.3	+ 10%	

#### 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.