



WILLIAM JOHNSTON & COMPANY LIMITED

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Black Nitrile to BS2751 BA50 WJ190

PROPERTIES	TEST METHOD	VALUES
		METRIC UNITS
DENSITY (Mg/m ³)	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 STIFFNESS 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%
ADDITIONAL INFORMATION -		
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%	

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