



# WILLIAM JOHNSTON & COMPANY LIMITED

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## Black Neoprene to BS2752 C50 WJ180

PROPERTIES	TEST METHOD	VALUES
		METRIC UNITS
SPECIFIC GRAVITY	BS 903: PART A1	1.35
HARDNESS	BS 903: PART A26	50 ± 5 IRHD
TENSILE STRENGTH (KG/CM2)	BS 903: PART A2	90
ELONGATION AT BREAK (MIN)	BS 903: PART A2	400%
COMPRESSION SET (70°C/24 HRS/25% SET) (MAX)	BS 903: PART A6	30%
TEAR RESISTANCE (ANGULAR) MIN	BS 903: PART A3	30 Kg/cm
RESISTANCE TO ACCELERATED AGEING- 168HRS AT 70°C	BS 903: PART A19	
--- HARDNESS (Pts)	BS 903: PART A26	+ 7 (MAX)
--- TENSILE STRENGTH (%)	BS 903: PART A2	-12 (MAX)
--- ELONGATION AT BREAK (%)	BS 903: PART A2	-20 (MAX)
VOLUME SWELL: AT 40°C FOR 24 HRS/IN	BS 903: PART A16	
FUEL B		+ 80% (MAX)
RESISTANCE TO LOW TEMPERATURE AT - 40°C	BS 903: PART A13	MEETS REQUIREMENTS
ADHESION TO AND CORROSION OF METALS	BS 903: PART A 37	MEETS REQUIREMENTS
POLYMER CONTENT (NEOPRENE)		100%
<b>ADDITIONAL INFORMATION -</b>		
CHEMICAL RESISTANCE		
--- OZONE	BS 903: PART A 43	GOOD
--- DILUTE ACIDS AND BASES	BS 903: PART A16	GOOD
--- CONCENTRATED ACIDS AND BASES		NOT RECOMMENDED
--- MINERAL OILS - PARAFINNIC & NAPHTHANIC HC		GOOD
--- MINERAL OILS - AROMATIC HC		FAIR
--ANIMAL/VEGETABLE OIL		GOOD
--SOLVENTS		FAIR
TEMPERATURE RANGE		-30° TO + 120° C
COLOUR	BLACK	

VOLUME SWELL DATA		
RESISTANCE TO LIQUIDS	BS ISO 1817, 24 $\frac{0}{-2}$ h at (40±1) °C	-0
VOLUME CHANGE (%) AFTER IMMERSION IN LIQUID B	BS ISO 1817, 24 $\frac{0}{-2}$ h at (40±1) °C	+80
RESISTANCE TO ACCELERATED AGEING	PART A19, AIR-OVEN METHOD A, (168±2) h, (70±1) °C	-0
CHANGE IN HARDNESS DEGREES (IRHD)	PART A26, METHOD N, MEASUREMENTS BEFORE AND AFTER AGEING ON THE SAME 2 PLYS EACH 2.00MM THICK	+7
MAXIMUM CHANGE IN TENSILE STRENGTH (% OF ORIGINAL VALUE)	PART A2, TYPE 1 OR TYPE 2 DUMBBELLS	-12
MAXIMUM CHANGE IN ELONGATION AT BREAK (% OF ORIGINAL VALUE)	PART A2, TYPE 1 OR TYPE 2 DUMBBELLS	-20

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