



WILLIAM JOHNSTON & COMPANY LIMITED

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Black Non-Reinforced Diaphragm 100% Premium Grade Nitrile 70° shore WJ206

PROPERTIES	TEST METHOD	VALUES FPS UNITS	TEST METHOD	VALUES METRIC UNITS
SPECIFIC GRAVITY	DIN 53508	1.25	ASTM D297	1.25
HARDNESS	DIN 53505	65 ± 5 SH A	ASTM D2240	65 ± 5 SH A
TENSILE STRENGTH (MIN)	DIN 53504	1425 PSI	ASTM D412	100 KG/CM2
ELONGATION AT BREAK (MIN)	DIN 53504	350%	ASTM D412	350%
COMPRESSION SET (70°C/24 HRS/25% SET) (MAX)	DIN ISO 815-1	30%	ASTM D395 METHOD B	30%
TEAR RESISTANCE (ANGULAR) MIN	DIN 53515	140 LBS/INCH	ASTM D624	25 KG/CM
CHANGE IN PROPERTIES				
HEAT AGEING (72 HRS. AT 70°C)			ASTM D 573	
--- HARDNESS (PTS)		+ 4 (MAX)		+ 4 (MAX)
--- TENSILE STRENGTH (%)		+ 10 / -10		+ 10 / -10
--- ELONGATION AT BREAK (%)		+ 10 / -20		+ 10 / -20
VOLUME SWELL: AT 70°C FOR 72 HRS/IN			ASTM D 471	
IRM OIL NO.1		-2%		-2%
IRM OIL NO.2		+ 4%		+ 4%
IRM OIL NO.3		+ 13%		+ 15%
POLYMER CONTENT (NITRILE)		100%		100%
CHEMICAL RESISTANCE				
--- OZONE		FAIR	ASTM D 1149	FAIR
--- DILUTE ACIDS AND BASES		GOOD		GOOD
--- CONCENTRATED ACIDS AND BASES		NOT RECOMMENDED		NOT RECOMMENDED
--- OILS		EXCELLENT		EXCELLENT
--- SOLVENTS		GOOD		GOOD
TEMPERATURE RANGE		-30° TO + 120° C		-30° TO + 120° C

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.