



WILLIAM JOHNSTON & COMPANY LIMITED

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High Acid Resistant EPDM Rubber to ICI M228 – 80° shore WJ1458

PROPERTIES	TEST METHOD	VALUES FPS UNITS	TEST METHOD	VALUES METRIC UNITS
SPECIFIC GRAVITY	ASTM D297	1.38 ± 0.05	DIN 53508	1.38 ± 0.05
HARDNESS	ASTM D2240	80 ± 5 SH A	DIN 53505	80 ± 5 SH A
TENSILE STRENGTH (MIN)	ASTM D412	1015 PSI	DIN 53504	70 KG/CM2
ELONGATION AT BREAK (MIN)	ASTM D412	250%	DIN 53504	250%
COMPRESSION SET (70°C/24 HRS/25% SET) (MAX)	ASTM D395 METHOD B	35%	DIN 53517	35%
TEAR RESISTANCE (ANGULAR) MIN	ASTM D624	110 LBS/INCH	DIN 53515	20 KG/CM
CHANGE IN PROPERTIES				
HEAT AGEING (72 HRS. AT 70°C)	ASTM D573			
--- HARDNESS (PTS)		+ 5 (MAX)		+ 5 (MAX)
--- TENSILE STRENGTH (%)		+ 10 / - 10		+ 10 / - 10
--- ELONGATION AT BREAK (%)		+ 10 / - 10		+ 10 / - 10
VOLUME SWELL: AT 70°C FOR 72 HRS/IN	ASTM D 471			
ASTM OIL NO.1		NOT RECOMMENDED		NOT RECOMMENDED
ASTM OIL NO.2		NOT RECOMMENDED		NOT RECOMMENDED
ASTM OIL NO.3		NOT RECOMMENDED		NOT RECOMMENDED
POLYMER CONTENT (EPDM)		100%		100%
CARBON CONTENT		30%		30%
CHEMICAL RESISTANCE				
--- OZONE	ASTM D 1149	EXCELLENT		EXCELLENT
--- DILUTE ACIDS AND BASES		EXCELLENT		EXCELLENT
--- CONCENTRATED ACIDS AND BASES		EXCELLENT		EXCELLENT
--- OILS		NOT RECOMMENDED		NOT RECOMMENDED
--- SOLVENTS		NOT RECOMMENDED		NOT RECOMMENDED
TEMPERATURE RANGE		-30° TO + 130°C		-30° TO + 130°C
COLOUR		BLACK		

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