



## WILLIAM JOHNSTON & COMPANY LIMITED

Glasgow Tel: +44 (0) 141 620 1666 | Inverness Tel: +44 (0) 1463 238 673  
[sales@williamjohnston.co.uk](mailto:sales@williamjohnston.co.uk) | [www.williamjohnston.co.uk](http://www.williamjohnston.co.uk)

### Black Commercial Grade NR EPDM Rubber 65° Shore WJ117

PROPERTIES	TEST METHOD	VALUES FPS UNITS	TEST METHOD	VALUES METRIC UNITS
SPECIFIC GRAVITY	DIN 53508	1.35 ± 0.05	ASTM D297	1.35 ± 0.05
HARDNESS	DIN 53505	60 ± 5 SH A	ASTM D2240	60 ± 5 SH A
TENSILE STRENGTH (KG/CM2)	DIN 53504	711 PSI	ASTM D412	60 KG/CM2
ELONGATION AT BREAK ( MIN )	DIN 53504	300%	ASTM D412	300%
COMPRESSION SET (70°C/24 HRS/25% SET) (MAX)	DIN 53517	35%	ASTM D395 METHOD B	35%
TEAR RESISTANCE ( ANGULAR ) MIN	DIN 53515	101 LBS/INCH	ASTM D624	18 KG/CM
CHANGE IN PROPERTIES				
HEAT AGEING (72 HRS. AT 70°C)			ASTM D573	
--- HARDNESS (PTS)		+ 3 (MAX)		+ 3 (MAX)
--- TENSILE STRENGTH (%)		+10 / - 15		+10 / - 15
--- ELONGATION AT BREAK (%)		+10 / - 15		+10 / - 15
VOLUME SWELL: AT 70°C FOR 72 HRS/IN			ASTM D 471	
IRM OIL NO.1		NOT RECOMMENDED		NOT RECOMMENDED
IRM OIL NO.2		NOT RECOMMENDED		NOT RECOMMENDED
IRM OIL NO.3		NOT RECOMMENDED		NOT RECOMMENDED
POLYMER CONTENT (EPDM)		30%		30%
CHEMICAL RESISTANCE				
--- OZONE		GOOD		GOOD
--- DILUTE ACIDS AND BASES		GOOD		GOOD
--- CONCENTRATED ACIDS AND BASES		FAIR		FAIR
--- OILS		NOT RECOMMENDED		NOT RECOMMENDED
--- SOLVENTS		NOT RECOMMENDED		NOT RECOMMENDED
TEMPERATURE RANGE		-30 ° TO +100° C		-30 ° TO +100° C
Colour		BLACK		

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.