



**WILLIAM JOHNSTON  
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**Black Premium Soft Grade EPDM Rubber 50° shore WJ1454**

PROPERTIES	TEST METHOD	VALUES FPS UNITS	TEST METHOD	VALUES METRIC UNITS
SPECIFIC GRAVITY	ASTM D297	1.25 ± 0.05	DIN 53508	1.25 ± 0.05
HARDNESS	ASTM D2240	50 ± 5 SH A	DIN 53505	50 ± 5 SH A
TENSILE STRENGTH (MIN)	ASTM D412	1280 PSI	DIN 53504	90 KG/CM2
ELONGATION AT BREAK (MIN)	ASTM D412	300%	DIN 53504	300%
COMPRESSION SET (70°C/24 HRS/25% SET) (MAX)	ASTM D395 METHOD B	40%	DIN 53517	40%
TEAR RESISTANCE (ANGULAR) MIN	ASTM D624	123.2 LBS/INCH	DIN 53515	22 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 / - 20		+ 10 / - 20
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%
CHEMICAL RESISTANCE				
--- OZONE	ASTM D 1149	EXCELLENT		EXCELLENT
--- DILUTE ACIDS AND BASES		EXCELLENT		EXCELLENT
--- CONCENTRATED ACIDS AND BASES		EXCELLENT		EXCELLENT
TEMPERATURE RANGE		-30° TO + 130°C		-30° TO + 130°C
COLOUR		BLACK		

**Disclaimer**

Please note, failure to select the correct materials or products we supply ("the Products") may result in damage to plant, equipment or property. In some instances, it may cause death or personal injury. We are not designers and do not give advice about design related matters concerning the Products. We can help and assist with the technical specifications for the Products. In specific applications, particularly where critical conditions exist, we will try to assist you within the limitations of the services that we offer. All information supplied by us is intended as technical co-operation outlining the specifications of the different Products which we supply. To the extent permitted in law, no warranty is given in respect of any information supplied by us. The customer must satisfy themselves as to the suitability of the Products for their intended application and use. The correct fitting of Products is the responsibility of the customer. Your statutory rights remain unaffected. Save in respect of death, personal injury or fraud, our entire liability to you, however arising from the supply of Products shall be limited to the £10M indemnity amount provided by our insurers.