



WILLIAM JOHNSTON & COMPANY LIMITED

Glasgow Tel: +44 (0) 141 620 1666 | Inverness Tel: +44 (0) 1463 238 673

sales@williamjohnston.co.uk |

www.williamjohnston.co.uk

White FDA Approved EPDM Rubber 60° shore WJ163
FDA 21 CFR 177.2600 & BSE/TSE Free and EU1935/2004 compliant

PROPERTIES	TEST METHOD	VALUES FPS UNITS	TEST METHOD	VALUES METRIC UNITS
SPECIFIC GRAVITY	DIN 53508	1.3	ASTM D297	1.3
HARDNESS	DIN 53505	60 ± 5 SH A	ASTM D2240	60 ± 5 SH A
TENSILE STRENGTH (MIN)	DIN 53504	715 PSI	ASTM D412	50 KG/CM2
ELONGATION AT BREAK (MIN)	DIN 53504	300%	ASTM D412	300
COMPRESSION SET (70 °C/24 HRS/25% SET) (MAX)	DIN ISO 815-1	40%	ASTM D395 METHOD B	40
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)		+ 5 (MAX)		+ 5 (MAX)
--- TENSILE STRENGTH (%)		+ 10/ - 10		+ 10/ - 10
--- ELONGATION AT BREAK (%)		+ 10/ - 20		+ 10/ - 20
POLYMER CONTENT (NITRILE)		100%		100%
CHEMICAL RESISTANCE				
--- OZONE		EXCELLENT	ASTM D 1149	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		-25° TO +140°C		-25° TO +140°C
COLOUR		OFF WHITE		

Test Name – Determination of amount of extractives. Method: With reference to US FDA 21 CFR 177.2600

Extractants	Test Condition	Amount of Extractives mg/inch ²	Acceptable Limit mg/inch ²	Conclusion
		1		
Distilled Water	70 °C for 2 hours	10	20	Pass
n-Hexane	70 °C for 2 hours	100	175	Pass

Note:

1. mg/inch² denotes Milligram per square inch
2. °C denotes Degrees Celsius

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.