



## **WILLIAM JOHNSTON** & COMPANY LIMITED

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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 EPDM		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 <sup>2</sup>	Acceptable Limit mg/inch <sup>2</sup>	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/inch<sup>2</sup> denotes Milligram per square inch
- 2. °C denotes Degrees Celsius

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