



**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

Off-white Food Quality Nitrile Rubber 60° shore WJ137

PROPERTIES	TEST METHOD	VALUES FPS UNITS	TEST METHOD	VALUES METRIC UNITS
SPECIFIC GRAVITY	DIN 53508	1.4 +- 0.05	ASTM D297	1.4 +- 0.05
HARDNESS	DIN 53505	60 ± 5 SH A	ASTM D2240	60 ± 5 SH A
TENSILE STRENGTH (MIN)	DIN 53504	853 PSI	ASTM D412	60 KG/CM2
ELONGATION AT BREAK (MIN)	DIN 53504	350	ASTM D412	350%
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	112 LBS/INCH	ASTM D624	20 KG/CM
CHANGE IN PROPERTIES HEAT AGEING (72 HRS. AT 70 °C)			ASTM D573	
--- HARDNESS (PTS)		+ 4 (MAX)		+ 4 (MAX)
--- TENSILE STRENGTH (%)		+ 10 / - 15		+ 10 / - 15
--- ELONGATION AT BREAK (%)		+ 10 / - 20		+ 10 / - 20
VOLUME SWELL : AT 70° C FOR 72 HRS/IN			ASTM D 471	
IRM OIL NO.1		+ 3		+ 3 %
IRM OIL NO.2		+ 16%		+ 16%
IRM OIL NO.3		+ 20%		+ 20%
POLYMER CONTENT (NITRILE)		100		100%
CHEMICAL RESISTANCE				
--- OZONE		FAIR	ASTM D 1149	FAIR
--- DILUTE ACIDS AND BASES		GOOD		GOOD
--- CONCENTRATED ACIDS AND BASES		NOT RECOMMENDED		NOT RECOMMENDED
--- OILS		GOOD		GOOD
--- SOLVENTS		FAIR		FAIR
TEMPERATURE RANGE		-20° TO + 110° C		-25° TO + 110° C
COLOUR		OFF WHITE		

Extraction Data Test Results

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
Distilled Water	70° C for 2 hours	< 1	< 20	Pass
n-Hexane	70° C for 2 hours	< 4	< 175	Pass

Conclusion: When tested as specified, the submitted sample complies with the specifications for the amount of extractives requirement for rubber articles intended for repeated use in contact with aqueous and fatty foods as stated in FDA 21 CFR 177.2600

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