



# WILLIAM JOHNSTON & COMPANY LIMITED

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### Blue Silicone Food Quality – 60° shore WJ14404

FDA 21 CFR No: 177 – 2600 & EU1935/2004 regulations and USO Class V1 Compliant

PROPERTIES	TEST METHOD	VALUES FPS UNITS	TEST METHOD	VALUES METRIC UNITS
SPECIFIC GRAVITY	DIN 53508	1.16±0.05	ASTM D297	1.16±0.05
HARDNESS	DIN 53505	61	ASTM D2240	61
TENSILE STRENGTH (KG/CM2)	DIN 53504	853 PSI	ASTM D412	80
ELONGATION AT BREAK (MIN)	DIN 53504	300%	ASTM D412	300%
COMPRESSION SET (150° 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
POLYMER CONTENT:				100%
CHANGE IN PROPERTIES				
HEAT AGEING (72 HRS. AT 100 °C)			ASTM D573	
--- HARDNESS (PTS)		+ 3 (MAX)		+ 3 (MAX)
--- TENSILE STRENGTH (%)		±5		±5
--- ELONGATION AT BREAK (%)		±5		±5
VOLUME SWELL: AT 70° C FOR 72 HRS/IN			ASTM D 471	
ASTM OIL NO.1		+ 5%		+ 5%
ASTM OIL NO.2		+ 7%		+ 7%
ASTM OIL NO.3		+ 25%		+ 25%
CHEMICAL RESISTANCE				
--- OZONE		EXCELLENT	ASTM D 1149	EXCELLENT
--- DILUTE ACIDS AND BASES		EXCELLENT		EXCELLENT
--- CONCENTRATED ACIDS AND BASES		EXCELLENT		EXCELLENT
--- OILS		GOOD		GOOD
--- SOLVENTS		FAIR		FAIR
TEMPERATURE RANGE		-60 ° TO + 225° C		-60 ° TO + 225° C
COLOUR				BLUE

Sr. No	Net Chloroform Soluble Extractives using	Result	Unit	Limits as per standard	Test Method
Total Extractives at Reflux Temperatures for 7 hrs. Using					
1	Distilled Water	2.8	mg/inch <sup>2</sup>	20.0	As per USFDA 21.CFR.176.2600
2	n-Hexane	22.4		175	
Total Extractives at Reflux Temperatures for 2 hrs. Using					
3	Distilled water	0.8	mg/inch <sup>2</sup>	1.0	
4	n-Hexane	0.8		4.0	

Note: Detection Limit for the method is 0.5 mg/inch<sup>2</sup>.

#### Disclaimer

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