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USP CLASS VI

White Silicone Food Quality – 60° shore WJ14105

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	1.20±0.05	ASTM D297	1.20±0.05
HARDNESS	DIN 53505	60 ± 5	ASTM D2240	60 ± 5
TENSILE STRENGTH (KG/CM2)	DIN 53504	712 PSI	ASTM D412	60 KG/CM ²
ELONGATION AT BREAK % (MIN)	DIN 53504	250	ASTM D412	250
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%		100%
CHANGE IN PROPERTIES				
HEAT AGEING (72 HRS. AT 100 °C)			ASTM D573	
--- HARDNESS (PTS)		3		3
--- TENSILE STRENGTH (%)		±5		±5
--- ELONGATION AT BREAK (%)		±5		±5
WRAS QUALITY TEST		APPROVED	BS 6920: PART 3: 2000	APPROVED
VOLUME SWELL: AT 70° C FOR 72 HRS/IN			ASTM D 471	
OZONE (20% STRETCH 40°C FOR 72 HRS AT 50 PPHM)		EXCELLENT	ASTM D 1149	EXCELLENT
--- DILUTE ACIDS AND BASES		EXCELLENT		EXCELLENT
--- CONCENTRATED ACIDS AND BASES		EXCELLENT		EXCELLENT
TEMPERATURE RANGE		-50 to 200°C		-50 to 200°C
COLOUR		WHITE		WHITE

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 ²	20.0	As per USFDA 21.CFR.176.2600
2	n-Hexane	22.4		175.0	
Total Extractives at Reflux Temperatures for 2 hrs. Using					
3	Distilled water	0.8	mg/inch ²	1.0	
4	n-Hexane	0.8		4.0	

Note: Detection Limit for the method is 0.5 mg/inch².

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