



White Super Soft High Abrasion Natural Rubber 38 Shore WJ138

FDA 21 CFR177-2600 and EU 1935/2004 compliant

PROPERTIES	TEST METHOD	VALUES FPS UNITS	TEST METHOD	VALUES METRIC UNITS
SPECIFIC GRAVITY	DIN 53508	0.98 ± 0.05	ASTM D297	0.98 ± 0.05
HARDNESS	DIN 53505	38 ± 5 SH A	ASTM D2240	38 ± 5 SH A
TENSILE STRENGTH (KG/CM2)	DIN 53504	2986 PSI	ASTM D412	240 KG/CM2
ELONGATION AT BREAK (MIN)	DIN 53504	810%	ASTM D412	810%
ABRASION RESISTANCE (MAX)	DIN 53516	80 MM3	ASTM D5963	80 MM3
COMPRESSION SET (70 °C/24 HRS/25% SET) (MAX)	DIN 53517	15 %	ASTM D395 METHOD	15 %
POLYMER CONTENT (%)		100		100
TEAR RESISTANCE (ANGULAR) MIN	DIN 53515	224 LBS/INCH	ASTM D624	40 KG/CM
RESILIENCE		75%		75%
CHANGE IN PROPERTIES				
HEAT AGEING (72 HRS. AT 70°C)			ASTM D573	
HARDNESS (PTS)		+ 3 (MAX)		+ 3 (MAX)
TENSILE STRENGTH (%)		+10 / - 15		+10 / - 15
ELONGATION AT BREAK (%)		+10 / - 15		+10 / - 15
FOOD GRADE COMPLIANCE	US FDA 21 CFR 177.2600	YES		YES
CHEMICAL RESISTANCE				
OZONE		FAIR		FAIR
DILUTE ACIDS AND BASES		GOOD		GOOD
CONCENTRATED ACIDS AND BASES		NOT RECOMMENDED		NOT RECOMMENDED
OILS		NOT RECOMMENDED		NOT RECOMMENDED
SOLVENTS		NOT RECOMMENDED		NOT RECOMMENDED
TEMPERATURE RANGE		-30° TO + 70° C		-30° TO + 70° C
COLOUR			OFF WHITE	

SR. NO	NAME OF PARAMETER	RESULT	UNIT	MAX LIMIT	TEST METHOD	
1	N-HEXANE EXTRACT FOR FIRST 7 HRS.	29.5	MG/INCH ²	175 MG/INCH ²		
2	N-HEXANE EXTRACT FOR SUCCEEDING 2 HRS	3.50	MG/INCH ²	4 MG/INCH ²	LIMIT AND TEST METHOD AS PER US-FDA 21.CFR.177.2600	
3	DISTILLED WATER EXTRACT FOR FIRST 7 HRS	1.3	MG/INCH ²	20 MG/INCH ²		
4	DISTILLED WATER EXTRACT FOR SUCCEEDING 2 HRS	0.60	MG/INCH ²	1 MG/INCH ²		

Notes:

- 1. For Sr. No1 & 2 sample extracted with n-Hexane at reflux temperature.
- 2. For SR. No. 3 7 4 sample extracted with distilled water at reflux temperature

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