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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.

Disclaimer

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