



EC1935:2004



Complies with FDA Food Contact Regulation 21 CFR 177-2600

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USP CLASS VI

**Black Silicone Non-Toxic General-Purpose Grade 45° Shore WJ14201
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 | 40 ± 5 SH A | ASTM D2240 | 40 ± 5 SH A |
| TENSILE STRENGTH (MIN) | DIN 53504 | 858 PSI | ASTM D412 | 60 KG/CM2 |
| ELONGATION AT BREAK (MIN) | DIN 53504 | 200% | ASTM D412 | 200% |
| COMPRESSION SET (70° C/24 HRS/25% SET) (MAX) | DIN 53517 | 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 (MAX) | | + 3 (MAX) |
| --- TENSILE STRENGTH (%) | | + 5 / - 5 | | + 5 / - 5 |
| --- ELONGATION AT BREAK (%) | | + 5 / - 5 | | + 5 / - 5 |
| VOLUME SWELL: AT 70° C FOR 72 HRS/IN | | | ASTM D 471 | |
| IRM OIL NO.1 | | + 5% | | + 5% |
| IRM OIL NO.2 | | + 7% | | + 7% |
| IRM OIL NO.3 | | + 25% | | + 25% |
| CHEMICAL RESISTANCE | | | | |
| --- OZONE | DIN 53508 | 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 | | -90 ° TO + 200° C | | -90 ° TO + 200° C |

Disclaimer

Please note, failure to select the correct materials or products we supply ("the Products") may result in damage to plant, equipment or property. In some instances, it may cause death or personal injury. We are not designers and do not give advice about design related matters concerning the Products. We can help and assist with the technical specifications for the Products. In specific applications, particularly where critical conditions exist, we will try to assist you within the limitations of the services that we offer. All information supplied by us is intended as technical co-operation outlining the specifications of the different Products which we supply. To the extent permitted in law, no warranty is given in respect of any information supplied by us. The customer must satisfy themselves as to the suitability of the Products for their intended application and use. The correct fitting of Products is the responsibility of the customer. Your statutory rights remain unaffected. Save in respect of death, personal injury or fraud, our entire liability to you, however arising from the supply of Products shall be limited to the £10M indemnity amount provided by our insurers.