

FPM/310

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|---------------------|-------------|--------|-----------|--|
| Material Data Sheet | Compound | V7001F | Rev.0 |  <i>-Part of Diploma PLC</i> |
| | Designation | FPM | Jan. 2017 | |

Material type: Fluoroelastomer Rubber 70 Shore A.

In accordance with FDA CFR21:177.2600.

FDA

Color: Black

Temperature Range: Min. -30°C Max. +200°C

Storage recommendation: According to ISO 2230

| Physical Properties | Unit | Test method | Value |
|--|------|-------------|---------|
| Hardness, Shore A | pts | D2240 | 70 +/-5 |
| Tensile strength | MPa | D412 | >10 |
| Ultimate Elongation | % | D412 | >150 |
| Specific gravity | | D297 | |
| Heat Resistance, 70h at 275°C | | | |
| Change in Hardness | pts | D573 | +/-10 |
| Change in Tensile strength | % | D573 | +/-30 |
| Change in Ultimate Elongation | % | D573 | +/-50 |
| Compression set, Method B | | | |
| 22h at 200°C | % | D395 | <25 |
| Oil Resistance, ASTM OIL IRM901, 70h at 200°C | | | |
| Change in Hardness | pts | D471 | -15/+5 |
| Change in Tensile strength | % | D471 | +/-40 |
| Change in Ultimate Elongation | % | D471 | -20/+30 |
| Change in Volume | % | D471 | 15 |

Test Results:

US FDA 21 CFR 177.2600

Unit: mg/inch²

| Test Items | Test Condition | MDL | Content | Limit |
|--------------------------------|-------------------------|-----|---------|-------|
| Extractives of distilled water | Reflux for 7h | 0.2 | N.D. | 20 |
| | Continue to extract, 2h | 0.2 | N.D. | 1 |
| Extractives of n-hexane | Reflux for 7h | 0.2 | 0.51 | 175 |
| | Continue to extract, 2h | 0.2 | 0.24 | 4 |

The results given in this datasheet are obtained on standard specimen following standard test procedures and are not comparable to finished products due to differences in the products profile. It is the customer's responsibility to evaluate parts prior to use in order to assure that parts will perform satisfactorily in their application.