

Softflex® 5000

Thermoplastic Elastomer

Network Polymers, Inc.

Message:

Softflex® 5000 is a Thermoplastic Elastomer (TPE) product. It can be processed by coating or injection molding and is available in North America.

| General Information | | | |
|--|------------------------------|-------------------|-------------|
| Forms | Pellets | | |
| Processing Method | Coating Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 0.875 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (235°C/1.0 kg) | 1.1 | g/10 min | ASTM D1238 |
| Molding Shrinkage | | | ASTM D955 |
| Flow : 3.18 mm | 2.3 | % | |
| Across Flow : 3.18 mm | 1.5 | % | |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A) | 50 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Flexural Modulus ¹ | 5.36 | MPa | ASTM D790 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress | | | ASTM D412 |
| 50% Strain | 0.738 | MPa | |
| 100% Strain | 0.951 | MPa | |
| 300% Strain | 1.63 | MPa | |
| Tensile Strength (Break) | 2.57 | MPa | ASTM D412 |
| Tensile Elongation (Break) | 1000 | % | ASTM D412 |
| Tear Strength | 21.2 | kN/m | ASTM D624 |
| Compression Set (23°C) | 19 | % | ASTM D395 |
| NOTE | | | |
| 1. | 13 mm/min | | |

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