

Flexalloy® OR 9800-60

Teknor Apex Company - Polyvinyl Chloride Elastomer

Friday, June 30, 2017

General Information

General

| | | | |
|-------------------|--|---|---|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East • Asia Pacific | • Europe • Latin America | • North America |
| Features | • Oil Resistant | • Ultra High Molecular Weight | |
| Uses | • Footwear • Gaskets • Hose | • Power/Other Tools • Seals • Tool/Tote Box | • Tubing • Wire & Cable Applications |
| RoHS Compliance | • RoHS Compliant | | |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

ASTM & ISO Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|----------|-------------|
| Specific Gravity | 1.14 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 2.5 | g/10 min | ASTM D1238 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Break) | 1210 | psi | ASTM D638 |
| Tensile Elongation (Break) | 320 | % | ASTM D638 |
| Elastomers | Nominal Value | Unit | Test Method |
| Compression Set (158°F, 22 hr) | 42 | % | ASTM D395 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A, 15 sec) | 59 | | ASTM D2240 |
| Thermal | Nominal Value | Unit | Test Method |
| Continuous Use Temperature | 194 | °F | ASTM D794 |
| Brittleness Temperature | -59.8 | °F | ASTM D746 |

Additional Information

Elongation Retention , Oil Immersion, ASTM #3 oil, 125°C, 7 days: 82%
Tensile Strength Retention , Oil Immersion, ASTM #3 oil, 125°C, 7 days: 150%
Swell, Oil Immersion, ASTM #3 oil, 125°C, 7 days: -3.5%
Dynamic Heat Stability, 205°C: >60 min

Notes

¹ Typical properties: these are not to be construed as specifications.

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