

Flexalloy® 9100-65

Teknor Apex Company - Polyvinyl Chloride Elastomer

Friday, June 30, 2017

General Information

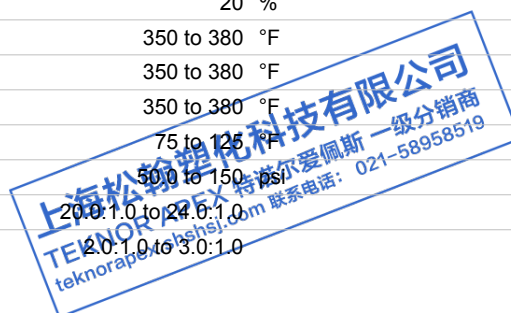
| General | | | |
|-------------------|---|--|--|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East • Asia Pacific | • Europe • Latin America | • North America |
| Features | • General Purpose • Good Thermal Stability | • Recyclable Material • Ultra High Molecular Weight | • Weather Resistant |
| Uses | • Film • Footwear • Gaskets • Hose | • Rope • Seals • Sheet • Tool/Tote Box | • Tubing • Weatherstripping • Wheels |
| Forms | • Pellets | | |
| Processing Method | • Extrusion | • Injection Molding | |

ASTM & ISO Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--|----------------|--------|-------------|
| Specific Gravity | 1.15 | | ASTM D792 |
| Molding Shrinkage - Flow | 0.010 to 0.025 | in/in | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (100% Strain) | 760 | psi | ASTM D638 |
| Tensile Strength (Break) | 2100 | psi | ASTM D638 |
| Tensile Elongation (Break) | 360 | % | ASTM D638 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tear Strength | 205 | lbf/in | ASTM D624 |
| Compression Set | | | ASTM D395 |
| 73°F | 23 | % | |
| 158°F, 22 hr | 55 | % | |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A, 15 sec) | 65 | | ASTM D2240 |
| Thermal | Nominal Value | Unit | Test Method |
| Continuous Use Temperature | 176 | °F | ASTM D794 |
| Brittleness Temperature | -58.0 | °F | ASTM D746 |
| Additional Information | | | |
| Brittle Temperature, ASTM D746: <-50°C | | | |

Processing Information

| Injection | Nominal Value | Unit |
|-------------------------|----------------------|------|
| Suggested Max Re grind | 20 | % |
| Rear Temperature | 350 to 380 | °F |
| Middle Temperature | 350 to 380 | °F |
| Front Temperature | 350 to 380 | °F |
| Mold Temperature | 75 to 125 | °F |
| Back Pressure | 50.0 to 150 | psi |
| Screw L/D Ratio | 20.0:1.0 to 24.0:1.0 | |
| Screw Compression Ratio | 2.0:1.0 to 3.0:1.0 | |



Notes

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

Revision Date: 12/12/2013

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