

Flexalloy® 9100-45

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 | 1.11 | | ASTM D792 |
| Molding Shrinkage - Flow | 0.010 to 0.025 | in/in | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (100% Strain) | 370 | psi | ASTM D638 |
| Tensile Strength (Break) | 1200 | psi | ASTM D638 |
| Tensile Elongation (Break) | 390 | % | ASTM D638 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tear Strength ² | 130 | lbf/in | ASTM D624 |
| Compression Set | | | ASTM D395 |
| 73°F, 22 hr | 23 | % | |
| 158°F, 22 hr | 57 | % | |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A, 15 sec) | 45 | | ASTM D2240 |
| Thermal | Nominal Value | Unit | Test Method |
| Brittleness Temperature | -69.0 | °F | ASTM D746 |

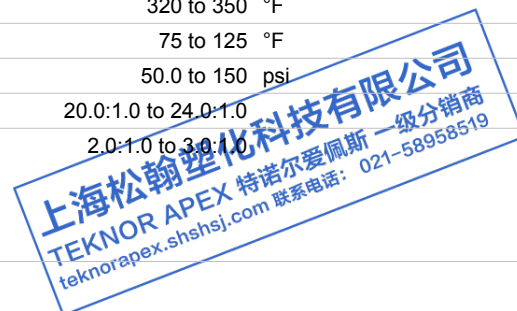
Processing Information

| Injection | Nominal Value | Unit |
|-------------------------|----------------------|------|
| Suggested Max Regrind | 20 | % |
| Rear Temperature | 320 to 350 | °F |
| Middle Temperature | 320 to 350 | °F |
| Front Temperature | 320 to 350 | °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.

² Die C



Revision Date: 12/12/2013

Flexalloy® 9100-45

Teknor Apex Company - Polyvinyl Chloride Elastomer

Teknor Apex Company
Corporate Headquarters

*In U.S. for Vinyls, TPEs, Colorants,
Engineered Thermoplastics (Chem Polymer)*
505 Central Avenue
Pawtucket, Rhode Island 02861 U.S.

Phone: 401-725-8000
Fax: 401-725-8095
Toll Free (U.S. only) 800-556-3864

Teknor Apex U.K. Ltd.

Tat Bank Road
Oldbury, West Midlands B69 4NH England

Phone: (44) 121-665-2100
Fax: (44) 121-544-5530

etpsales@teknorapex.co.uk

info@teknorapex.com

上海松翰塑化科技有限公司
TEKNOR APEX 特诺尔爱佩斯 一级分销商
teknorapex.shshsj.com 联系电话: 021-58958519

Revision Date: 12/12/2013

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchasers assume all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or by others. There is no warranty of merchantability and there are no other warranties for the products described.