

Monprene® MP-3020 XRD1 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

General Information

Product Description

Monprene MP-3020 XRD1 is a general purpose thermoplastic elastomer designed for a variety of consumer and industrial product applications requiring a soft, rubber-like feel. Monprene MP-3020 XRD1 is a medium density, high hardness grade which exhibits good flexibility and is suitable for injection molding.

General

| | | | |
|-------------------|--|---------------------------------------|------------------|
| Material Status | • Preliminary Data | | |
| Availability | • Africa & Middle East • Asia Pacific | • Europe • Latin America | • North America |
| Features | • Filled • Good Flexibility | • High Flexibility • High Hardness | • Medium Density |
| Uses | • Consumer Applications • Furniture | • General Purpose • Grommets | • Handles |
| RoHS Compliance | • RoHS Compliant | | |
| Appearance | • Natural Color | • Opaque | |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

ASTM & ISO Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|----------|-------------|
| Specific Gravity | 1.03 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 15 | g/10 min | ASTM D1238 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress (100% Strain) | 943 | psi | ASTM D412 |
| Tensile Strength (Break) | 1120 | psi | ASTM D412 |
| Tensile Elongation (Break) | 400 | % | ASTM D412 |
| Compression Set (158°F, 22 hr) | 78 | % | ASTM D395 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness | | | ASTM D2240 |
| Shore D, 1 sec, Injection Molded | 33 | | |
| Shore D, 5 sec, Injection Molded | 32 | | |
| Fill Analysis | Nominal Value | Unit | Test Method |
| Apparent Viscosity (392°F, 206 sec ⁻¹) | 140 | Pa·s | ASTM D3835 |

Legal Statement

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 purchaser assumes 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 others. There is no warranty of merchantability and there are no other warranties for the products described. For detailed Product Stewardship information, please contact us. Any product of Teknor Apex, including product names, shall not be used or tested in medical or food contact applications without the prior written acknowledgement of Teknor Apex as to the intended use. Please note that some products may not be available in one or more countries.

Processing Information

| Injection | Nominal Value | Unit |
|------------------------|---------------|------|
| Rear Temperature | 360 to 400 | °F |
| Middle Temperature | 360 to 400 | °F |
| Front Temperature | 360 to 400 | °F |
| Nozzle Temperature | 360 to 400 | °F |
| Processing (Melt) Temp | 360 to 400 | °F |

Revision Date: 6/1/2016

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| Injection | Nominal Value | Unit |
|--------------------|---------------|------|
| Mold Temperature | 60 to 90 | °F |
| Injection Pressure | 200 to 800 | psi |
| Injection Rate | Fast | |
| Back Pressure | 25.0 to 100 | psi |
| Screw Speed | 50 to 100 | rpm |
| Cushion | 0.150 to 1.00 | in |

Injection Notes

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

Notes

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

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*In U.S. for Vinyls, TPEs, Colorants,
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