

Monprene® OM-10240-02

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

General Information

Product Description

Monprene OM-10240-02 is designed for overmolding applications like grips and anti-skid parts for consumer/industrial products. Monprene OM-10240-02 is a low hardness, low density, translucent grade that exhibits excellent adhesion to PC, ABS, and PC/ABS.

General

| | | | |
|-------------------|---|--|---|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East • Asia Pacific | • Europe • Latin America | • North America |
| Features | • High Flow • Low Density • Low Hardness | • Low Specific Gravity • Lubricated • Slip | • Without Fillers |
| Uses | • Closures • Consumer Applications • Gaskets • Handles | • Kitchenware • Packaging • Safety Equipment • Sporting Goods | • Toothbrush Handles • Tubing • Writing Instruments |
| RoHS Compliance | • RoHS Compliant | | |
| Appearance | • Translucent | | |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

ASTM & ISO Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|----------|-------------|
| Specific Gravity | 0.910 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (150°C/2.16 kg) | 3.0 | g/10 min | ASTM D1238 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress ² | | | ASTM D412 |
| Across Flow : 100% Strain | 111 | psi | |
| Flow : 100% Strain | 288 | psi | |
| Tensile Stress ² | | | ASTM D412 |
| Across Flow : 300% Strain | 237 | psi | |
| Flow : 300% Strain | 605 | psi | |
| Tensile Strength ² | | | ASTM D412 |
| Across Flow : Break | 1420 | psi | |
| Flow : Break | 916 | psi | |
| Tensile Elongation ² | | | ASTM D412 |
| Across Flow : Break | 590 | % | |
| Flow : Break | 510 | % | |
| Tear Strength ² | | | ASTM D624 |
| Across Flow | 185 | lbf/in | |
| Flow | 112 | lbf/in | |
| Compression Set ³ (73°F, 22 hr) | 22 | % | ASTM D395B |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness | | | ASTM D2240 |
| Shore A, 1 sec, Injection Molded | 42 | | |
| Shore A, 5 sec, Injection Molded | 40 | | |

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Additional Information

| | Nominal Value | Unit |
|-----------------|---------------|------|
| Adhesion to ABS | | |
| Adhesion to PC | | |

Revision Date: 6/1/2016

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.

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| Additional Information | Nominal Value | Unit |
|------------------------|---------------|------|
| Adhesion to PC/ABS | | |

Legal Statement

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Processing Information

| Injection | Nominal Value | Unit |
|------------------------|---------------|------|
| Rear Temperature | 360 to 450 | °F |
| Middle Temperature | 370 to 460 | °F |
| Front Temperature | 380 to 470 | °F |
| Nozzle Temperature | 390 to 480 | °F |
| Processing (Melt) Temp | 390 to 480 | °F |
| Mold Temperature | 95 to 120 | °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 but is suggested to enhance the overmolding process. 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.

² Die C, 20 in/min

³ Type 1

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