# Medalist® MD-12364

## Teknor Apex Company - Thermoplastic Elastomer

Wednesday, April 1, 2026

## General Information

**Product Description**

Medalist MD-12364 is a high performance thermoplastic elastomer specifically designed for healthcare and medical applications. Medalist MD-12364 is a medium hardness, low density, halogen-free grade that can be sterilized is suitable for injection molding and extrusion.

| General | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Features | • Autoclave Sterilizable<br>• Ethylene Oxide Sterilizable<br>• Good Processability<br>• High Purity | • Kink Resistant<br>• Low Density<br>• Low Specific Gravity<br>• Medium Hardness | • No Animal Derived Components<br>• Radiation (Gamma) Resistant |
| Uses | • Medical/Healthcare Applications | • Pharmaceuticals | • Tubing |
| RoHS Compliance | • RoHS Compliant | | |
| Appearance | • Translucent | | |
| Forms | • Pellets | | |
| Processing Method | • Extrusion | • Injection Molding | |

## Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 0.882 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) | 1.0 | g/10 min | ASTM D1238 |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Stress (300% Strain) | 700 | psi | ASTM D412 |
| Tensile Strength (Break) | 1900 | psi | ASTM D412 |
| Tensile Elongation (Break) | 630 | % | ASTM D412 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness (Shore A, 1 sec) | 66 | | ASTM D2240 |

**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 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 | |

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| Injection | Nominal Value | Unit |
|---|---|---|
| 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).

| Extrusion | Nominal Value | Unit |
|---|---|---|
| Cylinder Zone 1 Temp. | 360 to 450 | °F |
| Cylinder Zone 2 Temp. | 370 to 460 | °F |
| Cylinder Zone 3 Temp. | 380 to 470 | °F |
| Cylinder Zone 5 Temp. | 390 to 480 | °F |
| Die Temperature | 390 to 480 | °F |

**Extrusion Notes**

Screw Speed: 30 to 100 rpm

### Notes

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


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