# Medalist® MD-12350

#### Thermoplastic Elastomer

### Teknor Apex Company

#### Message:

This compound is intended for use in medical and healthcare applications, particularly for extruded medical tubing and molding applications

Peatures   High purity     Pressure cooker disinfection     Ethylene oxide disinfection     Anti-gamma radiation     Workability, good     Kink resistance     No kinetic components     Uses     Safety equipment     Drug     Medical/nursing supplies     Kink resistance     Agency Ratings     ISO 10993 Part 5     ISO 13485     Sorens     Particle     Proressing Method     Extrusion     Injection molding     Physical   Nominal Value     Meti Mass-Flow Rate (MFR) (200°C/5.0 kg)   0.888     Grander Hardness   So     Shaw A, 1 sec   S3     Shaw A, 1 sec   S			eral Information			
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ISD 13485     Appearance   Fanslucent     Forms   Particle     Processing Method   Extrusion     Injection molding   Internet Method     Physical   Nominal Value   Moninal Composition     Specific Gravity   0.888   g/cm³   ASTM D792     Meth Mass-Flow Rate (MFR) (200°C/S.04)   1.0   g/lominal Composition   ASTM D792     Moninal Value   Unit   Test Method     Durometer Hardness   Nominal Value   Unit   Test Method     Shaw A, 1 sec   53   ASTM D2240   ASTM D2240     Shaw A, 5 seconds   50   ASTM D2240   ASTM D2240     Shaw A, 5 seconds   50   ASTM D2240   ASTM D2240     Shaw A, 5 seconds   50   ASTM D2240   ASTM D2240     Shaw A, 1 sec   Sominal Value   Unit   Test Method     Shaw A, 5 seconds   50   ASTM D2240   ASTM D2240     Shaw A, 5 seconds   Sominal Value   Unit   Test Method     Sominal Value   Internet Method   ASTM D2240   ASTM D2240     Sominal Value   Internet Method   ASTM D212 <td< td=""><td></td><td>g supplies</td><td>Medical/</td><td>oplies</td><td></td><td></td></td<>		g supplies	Medical/	oplies		
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Tensile Elongation (Break)	690	%	ASTM D412
Tear Strength	35.9	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 22 hr	17	%	ASTM D395
70°C, 22 hr	87	%	ASTM D395
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#### 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.

Injection	Nominal Value	Unit
Rear Temperature	149 - 171	°C
Middle Temperature	171 - 193	°C
Front Temperature	193 - 227	°C
Nozzle Temperature	193 - 227	°C
Processing (Melt) Temp	193 - 227	°C
Mold Temperature	21.1 - 51.7	°C
Back Pressure	0.345 - 1.03	MPa
Screw Speed	50 - 100	rpm
Cushion	3.56 - 25.4	mm

Injection instructions

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

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Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	171 - 188	°C
Cylinder Zone 2 Temp.	182 - 196	°C
Cylinder Zone 3 Temp.	185 - 204	°C
Cylinder Zone 5 Temp.	204 - 227	°C
Die Temperature	204 - 227	°C
Extrusion instructions		

Screw Speed: 30 to 100 rpmScreen Pack Recommendation: 60/200/200/60 to 60/200/400/400/200/60 mesh size

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#### Recommended distributors for this material

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