

# Medalist® MD-12342

# Teknor Apex Company - Thermoplastic Elastomer

Thursday, June 29, 2017

### **General Information**

#### **Product Description**

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

for medical devices.			
General			
Material Status	Commercial: Active		
Availability	<ul><li> Africa &amp; Middle East</li><li> Asia Pacific</li></ul>	<ul><li>Europe</li><li>Latin America</li></ul>	North America
Features	<ul><li>Autoclave Sterilizable</li><li>Ethylene Oxide Sterilizable</li><li>Good Processability</li></ul>	<ul><li> High Purity</li><li> Kink Resistant</li><li> No Animal Derived Component</li></ul>	Radiation (Gamma) Resistant ents
Uses	<ul> <li>Medical/Healthcare Application</li> </ul>	ns • Pharmaceuticals	
Agency Ratings	<ul> <li>ISO 10993 Part 5</li> </ul>	• ISO 13485	
RoHS Compliance	<ul> <li>RoHS Compliant</li> </ul>		
Appearance	<ul> <li>Translucent</li> </ul>		
Forms	• Pellets		
Processing Method	Extrusion	Injection Molding	

ASTM & ISO Properties 1				
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	0.890		ASTM D792	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	6.0	g/10 min	ASTM D1238	
Elastomers	Nominal Value	Unit	Test Method	
Tensile Stress (50% Strain)	155	psi	ASTM D412	
Tensile Stress (100% Strain)	200	psi	ASTM D412	
Tensile Stress (300% Strain)	415	psi	ASTM D412	
Tensile Strength (Break)	1900	psi	ASTM D412	
Tensile Elongation (Break)	720	%	ASTM D412	
Tear Strength	187	lbf/in	ASTM D624	
Compression Set			ASTM D395	
73°F, 22 hr	17	%		
158°F, 22 hr	97	%		
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness			ASTM D2240	
Shore A, 1 sec	44			
Shore A, 5 sec	42			

### 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 300 to 340 °F

Revision Date: 6/1/2016

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Injection	Nominal Value	Unit
Middle Temperature	340 to 380	°F
Front Temperature	380 to 440	°F
Nozzle Temperature	380 to 440	°F
Processing (Melt) Temp	380 to 440	°F
Mold Temperature	70 to 125	°F
Back Pressure	50.0 to 150	psi
Screw Speed	50 to 100	rpm
Cushion	0.140 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)

Nominal Value Unit
340 to 370 °F
360 to 385 °F
365 to 400 °F
400 to 440 °F
400 to 440 °F

#### **Extrusion Notes**

Screw Speed: 30 to 100 rpm

Screen Pack Recommendation: 60/200/200/60 to 60/200/400/400/200/60 mesh size

#### **Notes**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

#### Teknor Apex Company Corporate Headquarters

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