# 🚸 TEKNOR APEX

# Medalist<sup>®</sup> MD-12337

## Teknor Apex Company - Thermoplastic Elastomer

Saturday, September 14, 2024

### **General Information**

#### **Product Description**

Medalist MD-12337 is a high performance thermoplastic elastomer specifically designed for healthcare and medical applications, particularly extruded medical tubing and injection molding applications for medical devices. Medalist MD-12337 is a low hardness, low density, RoHS compliant grade that can be sterilized and is suitable for both injection molding and extrusion.

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>BPA Free</li> <li>Cleanable</li> <li>Ethylene Oxide Sterilizable</li> <li>Good Color Stability</li> </ul>	<ul> <li>Good Colorability</li> <li>Good Compression Set</li> <li>Good Processing Stability</li> <li>High Purity</li> <li>Low Density</li> </ul>	<ul><li> Low Hardness</li><li> No Animal Derived Components</li><li> Radiation (Gamma) Resistant</li></ul>
Uses	Medical/Healthcare Applications	Pharmaceuticals	
Agency Ratings	• ISO 10993-5	• ISO 13485	
RoHS Compliance	RoHS Compliant		
Appearance	• Translucent		
Forms	• Pellets		
Processing Method	Extrusion	Injection Molding	

### ASTM & ISO Properties<sup>1</sup>

Nominal Value	g/10 min Unit	ASTM D792 ASTM D1238 Test Method
Nominal Value	Unit	
0.724		Test Method
		itsi mituou
	MPa	ASTM D412
1.00	MPa	ASTM D412
2.48	MPa	ASTM D412
8.76	MPa	ASTM D412
720	%	ASTM D412
26.3	kN/m	ASTM D624
		ASTM D395
12	%	
77	%	
Nominal Value	Unit	Test Method
		ASTM D2240
39		
37		
	77 Nominal Value 39	

#### 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.

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	Processing Information	
Injection	Nominal Value	Unit
Rear Temperature	149 to 171	°C
Middle Temperature	171 to 193	°C
Front Temperature	193 to 227	°C
Nozzle Temperature	193 to 227	°C
Processing (Melt) Temp	193 to 227	°C
Mold Temperature	21 to 52	°C
Back Pressure	0.345 to 1.03	MPa
Screw Speed	50 to 100	rpm
Cushion	3.56 to 25.4	mm
Injection Notes		
Drying is not necessary, however, if moisture is a problem, d	ry the pellets for 2 to 4 hours at 150°F (65°C)	
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	171 to 188	°C
Cylinder Zone 2 Temp.	182 to 196	°C
Cylinder Zone 3 Temp.	185 to 204	°C
Cylinder Zone 4 Temp.	189 to 215	°C

204 to 227  $\,^{\circ}\mathrm{C}$ 

204 to 227 °C

Cylinder Zone 5 Temp.

## Die Temperature

### **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.

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