🚸 TEKNOR APEX

Medalist[®] MD-12150

Teknor Apex Company - Thermoplastic Elastomer

Saturday, September 14, 2024

General Information

Product Description

The Medalist MD-12100 series are high performance thermoplastic elastomers designed for medical and healthcare applications requiring high elasticity and excellent moldability. Medalist MD-12150 is a low hardness, low density, RoHS compliant grade which can be sterilized and exhibits excellent adhesion to polypropylene.

Material Status	Commercial: Active		
Availability	Africa & Middle EastAsia Pacific	 Europe Latin America	North America
Features	 Autoclave Sterilizable Chemical Resistant Ethylene Oxide Sterilizable Good Adhesion Good Moldability Good Sterilizability 	 Good Toughness Halogen Free Low Density Low Flow Low Specific Gravity Lubricated 	 Medium Hardness Radiation Sterilizable Resilient Slip Without Fillers
Uses	BushingsClosuresDisposable Hospital GoodsFlexible Grips	 Grommets Knobs Medical/Healthcare Applications Pharmaceuticals 	 Plugs Rubber Replacement
Agency Ratings	• ISO 10993-5	• ISO 13485	
RoHS Compliance	RoHS Compliant		
Appearance	Colors Available	Natural Color	Translucent
Forms	• Pellets		
Processing Method	Injection Molding	Multi Injection Molding	

ASTM & ISO Properties ¹				
Nominal Value	Unit	Test Method		
0.878	g/cm ³	ASTM D792		
6.0	g/10 min	ASTM D1238		
Nominal Value	Unit	Test Method		
1.17	MPa	ASTM D412		
1.45	MPa	ASTM D412		
2.17	MPa	ASTM D412		
4.31	MPa	ASTM D412		
620	%	ASTM D412		
26.6	kN/m	ASTM D624		
		ASTM D395		
17	%			
30	%			
Nominal Value	Unit	Test Method		
		ASTM D2240		
52				
50				
	Nominal Value 0.878 6.0 Nominal Value 1.17 1.45 2.17 4.31 620 26.6 17 30 Nominal Value 52	Nominal Value Unit 0.878 g/cm³ 6.0 g/10 min Nominal Value Unit 1.17 MPa 1.45 MPa 2.17 MPa 4.31 MPa 620 % 26.6 kN/m 17 % 30 % Nominal Value Unit 52 52		

Revision Date: 4/9/2020

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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Legal Statement

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	Processing Information
Injection	Nominal Value Unit
Rear Temperature	160 to 177 °C
Middle Temperature	182 to 204 °C
Front Temperature	193 to 216 °C
Nozzle Temperature	182 to 227 °C
Processing (Melt) Temp	182 to 227 °C
Mold Temperature	27 to 49 °C
Injection Rate	Moderate-Fast
Back Pressure	0.172 to 0.689 MPa
Screw Speed	50 to 100 rpm
Cushion	3.81 to 12.7 mm

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).

For applications where adhesion or overmolding to polypropylene (PP) is required, a higher processing temperature (up to 480 °F) is recommended.

Notes

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

² Die C, 510 mm/min

³ Type 1

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