

Medalist® MD-16155HH

Teknor Apex Company - Thermoplastic Elastomer

Saturday, September 14, 2024

General	Inform	ation
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Product Description

Medalist® MD-16155HH is a high performance thermoplastic elastomer (TPE) intended for use in medical and healthcare applications. Medalist® MD-16155HH is a medium density, medium hardness, sterilizable grade with good compression set, and high heat resistance that is suitable for injection molding.

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Material Status	• Commercial: Active		
Availability	 Africa & Middle East Asia Pacific	Europe Latin America	North America
Features	 Autoclave Sterilizable Chemical Resistant Ethylene Oxide Sterilizable Excellent Elastic Recovery Good Adhesion 	Good FlowGood MoldabilityGood SterilizabilityHalogen FreeLow Compression Set	 Medium Density Medium Hardness Radiation (Gamma) Resistant
Uses	 Gaskets Hospital Goods Medical/Healthcare Applications	 Membranes Pharmaceuticals Plugs	Rubber Replacement Seals
Agency Ratings	• ISO 10993-5	• ISO 13485	
RoHS Compliance	RoHS Compliant		
Appearance	Colors Available	Natural Color	• Opaque
Forms	• Pellets		
Processing Method	Injection Molding		

ASTM & ISO Properties 1

Nominal Value	Unit	Test Method
1.03	g/cm³	ASTM D792
2.5	g/10 min	ASTM D1238
Nominal Value	Unit	Test Method
2.41	MPa	ASTM D412
6.14	MPa	ASTM D412
620	%	ASTM D412
27.5	kN/m	ASTM D624
13	%	ASTM D395B
25	%	ASTM D395B
36	%	ASTM D395
Nominal Value	Unit	Test Method
		ASTM D2240
59		
57		
	1.03 2.5 Nominal Value 2.41 6.14 620 27.5 13 25 36 Nominal Value	25 % 36 % Nominal Value Unit 59

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.

Revision Date: 8/25/2020

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Processing Information			
Injection	Nominal Value	Unit	
Rear Temperature	182 to 216	°C	
Middle Temperature	193 to 227	°C	
Front Temperature	204 to 249	°C	
Nozzle Temperature	204 to 249	°C	
Processing (Melt) Temp	204 to 249	°C	
Mold Temperature	21 to 38	°C	
Back Pressure	0.172 to 0.689	MPa	
Screw Speed	50 to 100	rpm	
Cushion	3.81 to 25.4	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).

Notes

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

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² Die C, 510 mm/min

³ Type 1