

Medalist® MD-145

	General I	nformation		
Product Description	Generali	mormation		
This compound is medical and health	care applications requiring hot wate	r resistance.		
General				
Material Status	Commercial: Active			
	Africa & Middle East	Europe		
Availability	Asia Pacific	Latin America		North America
Uses	Medical/Healthcare Application	ations • Pharmaceuticals		
Agency Ratings	• ISO 10993 Part 5			
Appearance	Translucent			
Forms	Pellets			
Processing Method	• Extrusion	Injection Molding		
	ASTM & ISC	O Properties ¹		
Physical		Nominal Value	Unit	Test Method
Specific Gravity		0.890		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5	i.0 kg)	0.50	g/10 min	ASTM D1238
Molding Shrinkage - Flow		0.025		ASTM D955
Molding Shrinkage - Across Flow		0.024	in/in	ASTM D955
Elastomers		Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)		150	psi	ASTM D412
Tensile Stress (200% Strain)		205	psi	ASTM D412
Tensile Stress (300% Strain)		255	psi	ASTM D412
Tensile Strength (Break)		850	psi	ASTM D412
Tensile Elongation (Break)		750	%	ASTM D412
Tear Strength		130	lbf/in	ASTM D624
Compression Set		16	%	ASTM D395
Hardness		Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)		50		ASTM D2240
	Processing	Information		
njection		Nominal Value	Unit	
Rear Temperature		280 to 320	°F	
Middle Temperature		320 to 360	°F	
Front Temperature		340 to 380	°F	
Nozzle Temperature		380 to 420	°F	
Processing (Melt) Temp		380 to 420	°F	
Mold Temperature		70.0 to 100	°F	
Injection Pressure		200 to 800	psi	
Back Pressure		25.0 to 100	psi	
Screw Speed		50 to 100	rpm	
		0.150 to 1.00		

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.

Nominal Value Unit

280 to 300 °F

300 to 320 °F

Extrusion

Cylinder Zone 1 Temp.

Cylinder Zone 2 Temp.

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Teknor Apex Company - Thermoplastic Elastomer

Extrusion	Nominal Value	Unit
Cylinder Zone 3 Temp.	320 to 360 °	°F
Cylinder Zone 5 Temp.	340 to 380 °	°F
Die Temperature	360 to 400 °	°F
Fotossian Natas		

Extrusion Notes

Screw Speed: 30 to 100 rpm

Notes

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

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