

Medalist® MD-50133

Teknor Apex Company - Thermoplastic Elastomer

Thursday, June 29, 2017

General Information

Product Description

Legal Statement

Medalist MD-50133 is a clear high performance thermoplastic elastomer specifically designed for healthcare and medical applications. Medalist MD-50133 is a low hardness, low density, halogen-free grade that is suitable for extrusion or molding.

General			
Material Status	Commercial: Active		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Features	Chemical ResistantGood AdhesionGood Processability	Good SterilizabilityHalogen FreeHigh Clarity	Low DensityLow HardnessLow Specific Gravity
Uses	Medical/Healthcare Applic	cations • Pharmaceuticals	 Safety Equipment
Agency Ratings	• ISO 13485		
RoHS Compliance	RoHS Compliant		
Appearance	 Clear/Transparent 		
Forms	 Pellets 		
Processing Method	 Extrusion 	 Injection Molding 	

ASTM & ISO Properties ¹				
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	0.880		ASTM D792	
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	160	g/10 min	ASTM D1238	
Elastomers	Nominal Value	Unit	Test Method	
Tensile Strength (Break)	650	psi	ASTM D412	
Tensile Elongation (Break)	680	%	ASTM D412	
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness			ASTM D2240	
Shore A, 1 sec	35			
Shore A, 5 sec	33			
Shore A, 15 sec	30			

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Processing Information				
Injection	Nominal Value Unit			
Rear Temperature	260 to 300 of 100 100 100 100 100 100 100 100 100 10			
Middle Temperature	260-to 300 °F 7 20 021-58958519 280 to 320 °F 7 20 021-58958519			
Front Temperature	300 to 340° °F			
Nozzle Temperature	NO 340 to 380 °E			
Processing (Melt) Temp	TEKNOTAP 340 to 380 °F			
Mold Temperature	70 to 100 °F			
Injection Pressure	200 to 800 psi			

Revision Date: 7/13/2016

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Nominal Value	Unit
25.0 to 100	psi
50 to 100	rpm
0.150 to 1.00	in
pellets for 2 to 4 hours at 150°F (6	5°C).
Nominal Value	Unit
340 to 370	°F
360 to 385	°F
365 to 400	°F
365 to 400	°F
400 to 440	°F
400 to 440	°F
	25.0 to 100 50 to 100 0.150 to 1.00 pellets for 2 to 4 hours at 150°F (6 Nominal Value 340 to 370 360 to 385 365 to 400 365 to 400 400 to 440

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

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

Teknor Apex Company Corporate Headquarters

In U.S. for Vinyls, TPEs, Colorants, Engineered Thermoplastics (Chem Polymer)

505 Central Avenue Pawtucket, Rhode Island 02861 U.S.

Phone: 401-725-8000 Fax: 401-725-8095

Toll Free (U.S. only) 800-556-3864

Teknor Apex U.K. Ltd.

Oldbury, West Midlands B69 4NH England

Phone: (44) 121-665-2100 Fax: (44) 121-544-5530

etpsales@teknorapex.co.uk

info@teknorapex.com



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