Medalist® MD-50138D

Thermoplastic Elastomer

Teknor Apex Company

Message:

Medalist™MD-50138D is a thermoplastic elastomer (TPE) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is extrusion or injection molding.

Safety equipment

Typical application areas include:

medical/health care

General Information

safety equipment

Uses

Uses	Salety equipment			
	Drug			
	Medical/nursing supplies			
Appearance	Clear/transparent			
Forms	Particle			
Processing Method	Extrusion			
	Injection molding			
Physical	Nominal Value	Unit 	Test Method	
Specific Gravity	0.888	g/cm³	ASTM D792	
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238	
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness			ASTM D2240	
Shaw D, 1 sec	40		ASTM D2240	
Shaw D, 5 seconds	38		ASTM D2240	
Shaw D, 10 seconds	35		ASTM D2240	
Mechanical	Nominal Value	Unit	Test Method	
Flexural Modulus	172	MPa	ASTM D790	
Elastomers	Nominal Value	Unit	Test Method	
Tensile Strength (Break)	17.9	МРа	ASTM D412	
Tensile Elongation (Break)	580	%	ASTM D412	
Injection	Nominal Value	Unit		
Rear Temperature	127 - 149	°C		
Middle Temperature	138 - 160	°C		
Front Temperature	149 - 171	°C		
Nozzle Temperature	171 - 193	°C		
Processing (Melt) Temp	171 - 193	°C		
Mold Temperature	21.1 - 37.8	°C		
Injection Pressure	1.38 - 5.52	MPa		

Back Pressure	0.172 - 0.689	MPa	
Screw Speed	50 - 100	rpm	
Cushion	3.81 - 25.4	mm	
Injection instructions			

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	171 - 188	°C
Cylinder Zone 2 Temp.	182 - 196	°C
Cylinder Zone 3 Temp.	185 - 204	°C
Cylinder Zone 5 Temp.	204 - 227	°C
Die Temperature	204 - 227	°C
Extrusion instructions		

Screw Speed: 30 to 100 rpm.Screen Pack Recommendation:60/200/200/60 to 60/200/400/400/200/60 mesh size.

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