

Medalist® MD-50143

Thermoplastic Elastomer

Teknor Apex Company

Message:

Medalist™MD-50143 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.

Typical application areas include:

medical/health care

safety equipment

General Information	
Uses	Safety equipment Drug Medical/nursing supplies
Appearance	Clear/transparent
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.878	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	100	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A, 1 sec	45		ASTM D2240
Shaw A, 5 seconds	43		ASTM D2240
Shaw A, 15 seconds	40		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	5.52	MPa	ASTM D412
Tensile Elongation (Break)	680	%	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
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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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
 Phone: +86 13424755533
 Email: sales@su-jiao.com
 No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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