Medalist® MD-447

Thermoplastic Elastomer

Teknor Apex Company

Message:

Medalist™MD-447 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

	Drug			
	Medical/nursing supplies			
Appearance	Clear/transparent			
Forms	Particle			
Processing Method	Extrusion			
J	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	0.868	g/cm³	ASTM D792	
Melt Mass-Flow Rate (MFR) (125°C/2.16				
kg)	20	g/10 min	ASTM D1238	
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness			ASTM D2240	
Shaw A, 1 sec	0		ASTM D2240	
Shaw OO, 1 sec	25		ASTM D2240	
Elastomers	Nominal Value	Unit	Test Method	
Tensile Stress (300% Strain)	0.172	МРа	ASTM D412	
Tensile Strength (Break)	0.689	MPa	ASTM D412	
Tensile Elongation (Break)	750	%	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.	138 - 149	°C		
Cylinder Zone 2 Temp.	149 - 160	°C		
Cylinder Zone 3 Temp.	160 - 182	°C		
Cylinder Zone 5 Temp.	171 - 193	°C		
Die Temperature	182 - 204	°C		
Extrusion instructions				

Screw Speed: 30 to 100 rpm

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Recommended distributors for this material

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