

Medalist® MD-84388 (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

Message:

Medalist™MD-8421 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		
Forms	Particle		
Processing Method	Extrusion Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.978	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	16	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	91		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	19.7	MPa	ASTM D412
Tensile Elongation (Break)	620	%	ASTM D412
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -60.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			ASTM D257
23°C	3.5E+16	ohms · cm	ASTM D257
50°C	1.9E+16	ohms · cm	ASTM D257
Dielectric Strength	54	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
1 kHz	2.24		ASTM D150
1 MHz	2.26		ASTM D150
Dissipation Factor			ASTM D150
1 kHz	2.3E-3		ASTM D150
1 MHz	5.1E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method

Oxygen Index	17	%	ASTM D2863
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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