

Medalist® MD-84368 (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

Message:

Medalist™MD-8431 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	0.928	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	69		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	19.3	MPa	ASTM D412
Tensile Elongation (Break)	650	%	ASTM D412
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	105	°C	UL 1581
Brittleness Temperature	< -80.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			ASTM D257
23°C	1.1E+17	ohms · cm	ASTM D257
50°C	1.1E+16	ohms · cm	ASTM D257
Dielectric Strength	51	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
1 kHz	2.23		ASTM D150
1 MHz	2.26		ASTM D150
Dissipation Factor			ASTM D150
1 kHz	7.0E-4		ASTM D150
1 MHz	2.8E-3		ASTM D150

Flammability	Nominal Value	Unit	Test Method
Oxygen Index	18	%	ASTM D2863
Additional Information			
Maximum Continuous Operating Temperature, UL-1581: 105C rated; Meets 720 hour Sunlight Resistance			
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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