Medalist® MD-12360

Thermoplastic Elastomer

Teknor Apex Company

Message:

Medalist MD-12360 is a clear high performance thermoplastic elastomer, available in NAT and colors, intended for use in medical and healthcare applications. Medalist MD-12360 is a medium hardness, low density grade suitable for injection molding and extrusion.

General Information					
Features	Excellent Processability				
	Low Specific Gravity				
	Low density				
	Good disinfection				
	Good flexibility				
	Good adhesion				
	Good chemical resistance				
	Halogen-free				
	Medium hardness				
Uses	Drug				
	Medical/nursing supplies				
	Wealed, Harsing Supplies				
Agency Ratings	ISO 13485				
RoHS Compliance	RoHS compliance				
Appearance	Clear/transparent				
Forms	Particle				
Processing Method	Extrusion				
	Injection molding				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	0.888	g/cm ³	ASTM D792		
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.0	g/10 min	ASTM D1238		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness			ASTM D2240		
Shaw A, 1 sec	62		ASTM D2240		
Shaw A, 5 seconds	60		ASTM D2240		
Elastomers	Nominal Value	Unit	Test Method		
Tensile Stress			ASTM D412		
100% strain	2.31	MPa	ASTM D412		
200% strain	3.28	MPa	ASTM D412		
300% strain	4.62	MPa	ASTM D412		

Tensile Strength (Break)	15.2	MPa	ASTM D412
Tensile Elongation (Break)	780	%	ASTM D412

Legal statement

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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 - 38	°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).

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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 4 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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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

