

Medalist® MD-105

Thermoplastic Elastomer

Teknor Apex Company

Message:

This compound is designed for medical and healthcare applications requiring a soft, gel-like material.

General Information			
Uses	Drug		
	Medical/nursing supplies		
Agency Ratings	ISO 10993 Part 5		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	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)	15	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	2.8	%	ASTM D955
Transverse flow	2.4	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	18		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	0.345	MPa	ASTM D412
200% strain	0.483	MPa	ASTM D412
300% strain	0.689	MPa	ASTM D412
Tensile Strength (Break)	4.14	MPa	ASTM D412
Tensile Elongation (Break)	600	%	ASTM D412
Tear Strength	17.5	kN/m	ASTM D624
Compression Set (23°C, 22 hr)	23	%	ASTM D395
Injection	Nominal Value	Unit	
Rear Temperature	138 - 149	°C	
Middle Temperature	149 - 160	°C	
Front Temperature	160 - 171	°C	
Nozzle Temperature	171 - 182	°C	
Processing (Melt) Temp	171 - 182	°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).

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Recommended distributors for this material

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