

# Medalist® MD-105

Teknor Apex Company - Thermoplastic Elastomer

Thursday, June 29, 2017

## General Information

### Product Description

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

### General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Uses	• Medical/Healthcare Applications • Pharmaceuticals
Agency Ratings	• ISO 10993 Part 5
RoHS Compliance	• RoHS Compliant
Appearance	• Clear/Transparent
Forms	• Pellets
Processing Method	• Injection Molding

## ASTM & ISO Properties <sup>1</sup>

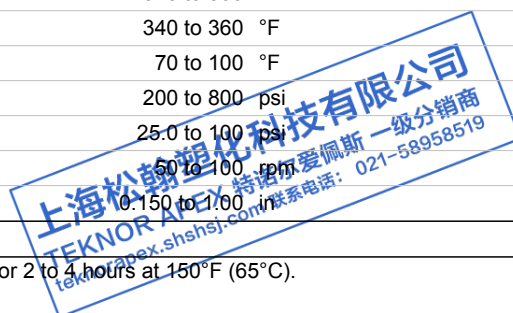
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.880		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.028	in/in	ASTM D955
Molding Shrinkage - Across Flow	0.024	in/in	ASTM D955
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	50.0	psi	ASTM D412
Tensile Stress (200% Strain)	70.0	psi	ASTM D412
Tensile Stress (300% Strain)	100	psi	ASTM D412
Tensile Strength (Break)	600	psi	ASTM D412
Tensile Elongation (Break)	600	%	ASTM D412
Tear Strength	100	lbf/in	ASTM D624
Compression Set (73°F, 22 hr)	23	%	ASTM D395
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	18		ASTM D2240

## Processing Information

Injection	Nominal Value	Unit
Rear Temperature	280 to 300	°F
Middle Temperature	300 to 320	°F
Front Temperature	320 to 340	°F
Nozzle Temperature	340 to 360	°F
Processing (Melt) Temp	340 to 360	°F
Mold Temperature	70 to 100	°F
Injection Pressure	200 to 800	psi
Back Pressure	25.0 to 100	psi
Screw Speed	50 to 100	rpm
Cushion	0.150 to 1.00	in

### Injection Notes

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).



Revision Date: 10/20/2016

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### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

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