# Medalist® MD-50263

### Thermoplastic Elastomer

**Teknor Apex Company** 

#### Message:

This compound is intended for use in medical and healthcare applications, particularly for extruded medical tubing

General Information					
Features	High purity				
	Pressure cooker disinfection				
	Ethylene oxide disinfection				
	Anti-gamma radiation				
	Workability, good				
	Kink resistance				
	Definition, high				
	No kinetic components				
Uses	Drug				
	Medical/nursing supplies				
Agency Ratings	ISO 10993 Part 5				
	ISO 13485				
Appearance	Clear/transparent				
Forms	Particle				
Processing Method	Extrusion				
	Injection molding				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	0.888	g/cm³	ASTM D792		
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.5	g/10 min	ASTM D1238		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness			ASTM D2240		
Shaw A, 1 sec	67		ASTM D2240		
Shaw A, 5 seconds	65		ASTM D2240		
Elastomers	Nominal Value	Unit	Test Method		
Tensile Stress			ASTM D412		
50% strain	2.24	MPa	ASTM D412		
100% strain	2.65	MPa	ASTM D412		
300% strain	4.24	MPa	ASTM D412		

Tensile Elongation (Break)	630	%	ASTM D412
Tear Strength	43.3	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 22 hr	18	%	ASTM D395
70°C, 22 hr	86	%	ASTM D395

Legal statement

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Injection	Nominal Value	Unit	
Rear Temperature	149 - 171	°C	
Middle Temperature	171 - 193	°C	
Front Temperature	193 - 227	°C	
Nozzle Temperature	193 - 227	°C	
Processing (Melt) Temp	193 - 227	°C	
Mold Temperature	21.1 - 51.7	°C	
Back Pressure	0.345 - 1.03	МРа	
Screw Speed	50 - 100	rpm	
Cushion	3.56 - 25.4	mm	
Injection instructions			

#### 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.	171 - 188	°C
Cylinder Zone 2 Temp.	182 - 196	°C
Cylinder Zone 3 Temp.	185 - 204	°C
Cylinder Zone 5 Temp.	204 - 227	°C
Die Temperature	204 - 227	°C
Extrusion instructions		

Screw Speed: 30 to 100 rpm.Screen Pack Recommendation:60/200/200/60 to 60/200/400/400/200/60 mesh size.

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#### Recommended distributors for this material

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