Medalist® MD-16376 X (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

Message:

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

General Information			
Features	High purity		
	Pressure cooker disinfection		
	Ethylene oxide disinfection		
	Anti-gamma radiation		
	Adhesiveness		
	Good processing stability		
	Kink resistance		
	Definition, high		
Uses	Safety equipment		
	Medical/nursing supplies		
	Medical devices		
	Seat		
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	0.978	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16			
kg)	6.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A, 1 sec	78		ASTM D2240
Shaw A, 5 seconds	76		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% strain	4.00	MPa	ASTM D412

100% strain	4.14	MPa	ASTM D412	
300% strain	6.58	MPa	ASTM D412	
Tensile Strength (Break)	19.2	MPa	ASTM D412	
Tensile Elongation (Break)	540	%	ASTM D412	
Tear Strength	46.8	kN/m	ASTM D624	
Compression Set			ASTM D395	
23°C, 22 hr	61	%	ASTM D395	
70°C, 22 hr	110	%	ASTM D395	
Legal statement				

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Nominal Value	Unit
149 - 171	°C
171 - 193	°C
193 - 227	°C
193 - 227	°C
193 - 227	°C
21.1 - 51.7	°C
0.345 - 1.03	MPa
50 - 100	rpm
3.56 - 25.4	mm
	Nominal Value 149 - 171 171 - 193 193 - 227 193 - 227 193 - 227 193 - 227 0.345 - 1.03 50 - 100 3.56 - 25.4

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 rpmScreen Pack Recommendation: 60/200/200/60 to 60/200/400/400/200/60 mesh size

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