Medalist® MD-53278 (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

Message:

The Medalist MD-53200 Series is a high performance thermoplastic elastomer series, designed to be a sustainable alternative to flexible PVC for medical tubing and film. Medalist MD-53278 is a low density, medium hardness, clear, lubricated grade, available in Nat and color-matched, intended for use in medical and healthcare applications, with excellent processability and throughput in extruded tubing.

Low Specific Gravity				
zon spesime diarry				
High purity				
Low density				
Pressure cooker disinfection				
Ethylene oxide disinfection				
Anti-gamma radiation				
Workability, good				
Good melt strength				
Good coloring				
Good adhesion				
Good chemical resistance				
Kink resistance				
Definition, high				
Good toughness				
Lubrication				
No kinetic components				
Halogen-free				
Medium hardness				
Clear Sheet				
Films				
Pipe				
Pipe fittings				
Rubber substitution				
Drug				
Medical/nursing supplies				
ISO 10993 Part 5				
ISO 13485				
RoHS compliance				
Available colors				

Clear/transparent

Forms	Particle	
Processing Method	Extrusion	
	cast film	
	Injection molding	

Nominal Value	Unit	Test Method
0.888	g/cm³	ASTM D792
7.0	g/10 min	ASTM D1238
Nominal Value	Unit	Test Method
		ASTM D2240
81		ASTM D2240
79		ASTM D2240
Nominal Value	Unit	Test Method
		ASTM D412
4.45	MPa	ASTM D412
4.79	MPa	ASTM D412
6.76	MPa	ASTM D412
14.9	MPa	ASTM D412
620	%	ASTM D412
64.3	kN/m	ASTM D624
		ASTM D395
23	%	ASTM D395
83	%	ASTM D395
	0.888 7.0 Nominal Value 81 79 Nominal Value 4.45 4.79 6.76 14.9 620 64.3	0.888 g/cm³ 7.0 g/10 min Nominal Value Unit 81 79 Nominal Value Unit 4.45 MPa 4.79 MPa 6.76 MPa 14.9 MPa 620 % 64.3 kN/m

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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 - 52	°C
Back Pressure	0.345 - 1.03	MPa
Screw Speed	50 - 100	rpm
Cushion	3.56 - 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).

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 4 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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