🚸 TEKNOR APEX

Medalist[®] MD-53263

Teknor Apex Company - Thermoplastic Elastomer

Saturday, September 14, 2024

General Information

Product Description

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-53263 is a low density, medium hardness, clear, lubricated grade, available in natural and color-matched, intended for use in medical and healthcare applications, with excellent processability and throughput in extruded tubing.

Material Status	Commercial: Active		
Availability	Africa & Middle EastAsia Pacific	EuropeLatin America	North America
Features	 Chemical Resistant Ethylene Oxide Sterilizable Good Adhesion Good Colorability Good Melt Strength Good Processability 	 Good Toughness Halogen Free High Clarity High Purity Kink Resistant Low Density 	 Low Specific Gravity Lubricated Medium Hardness Radiation (Gamma) Resistant
Uses	Clear SheetFilmHose	Medical/Healthcare ApplicationsPharmaceuticalsRubber Replacement	• Tubing
Agency Ratings	• ISO 10993-5	• ISO 13485	
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent	Colors Available	
Forms	• Pellets		
Processing Method	Cast Film	Extrusion	

ASTM & ISO Properties ¹					
Physical	Nominal Value	Unit	Test Method		
Density / Specific Gravity	0.888	g/cm ³	ASTM D792		
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.5	g/10 min	ASTM D1238		
Elastomers	Nominal Value	Unit	Test Method		
Tensile Stress ² (50% Strain)	2.00	MPa	ASTM D412		
Tensile Stress ² (100% Strain)	2.34	MPa	ASTM D412		
Tensile Stress ² (300% Strain)	3.79	MPa	ASTM D412		
Tensile Strength ² (Break)	11.7	MPa	ASTM D412		
Tensile Elongation ² (Break)	680	%	ASTM D412		
Tear Strength ²	42.0	kN/m	ASTM D624		
Compression Set ³			ASTM D395B		
23°C, 22 hr	16	%			
70°C, 22 hr	99	%			
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness			ASTM D2240		
Shore A, 1 sec, Injection Molded	66				
Shore A, 5 sec, Injection Molded	64				

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Legal Statement

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	Processing Information	
Extrusion	Nominal Value Unit	
Cylinder Zone 1 Temp.	160 to 188 °C	
Cylinder Zone 2 Temp.	182 to 196 °C	
Cylinder Zone 3 Temp.	182 to 204 °C	
Cylinder Zone 4 Temp.	182 to 204 °C	
Cylinder Zone 5 Temp.	182 to 210 °C	
Die Temperature	177 to 216 °C	
Extrusion Notes		

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

Notes

¹ Typical properties: these are not to be construed as specifications.

² Die C, 510 mm/min

³ Type 1

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Revision Date: 3/23/2021

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