

Medalist® MD-13240 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Saturday, September 14, 2024

	General In	formation	
Product Description			
Medalist MD-13240 is a high performance			
hardness, low density, halogen-free grade	that can be sterilized and is suitable for c	ast film, extrusion, and injection m	olding.
General			
Material Status	Commercial: Active		
Availability	 Africa & Middle East 	• Europe	North America
Availability	 Asia Pacific 	 Latin America 	North America
	 Chemical Resistant 	 Good Toughness 	
	• Ethylene Oxide Sterilizable	 Halogen Free 	 Puncture Resistant
	 Good Adhesion 	 Low Density 	 Radiation Sterilizable
Features	 Good Melt Strength 	• Low Flow	 Resilient
	Good Printability	Low Hardness	• Slip
	Good Processability	• Low Odor	Without Fillers
	Good Sterilizability	Low Specific Gravity	
	Dental Applications	Medical Devices	
Uses	• Film	Medical/Healthcare Applica	Rubber Replacement
	Hospital Goods	Pharmaceuticals	
Agency Ratings	• ISO 10993-5	• ISO 13485	
RoHS Compliance	RoHS Compliant		
Appearance	Colors Available	Natural Color	• Translucent
Forms	• Pellets		
Processing Method	• Cast Film	Film Extrusion	Injection Molding
	ASTM & ISO) Properties 1	
Physical		Nominal Value Unit	Test Method
Density / Specific Gravity		0.898 g/cm	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16	ó kg)	3.0 g/10	min ASTM D1238
Elastomers		Nominal Value Unit	Test Method
Tensile Stress ² (100% Strain)		1.59 MPa	ASTM D412
Tensile Stress ² (300% Strain)		3.79 MPa	ASTM D412
Tensile Strength ² (Break)		10.2 MPa	ASTM D412
Tensile Elongation ² (Break)		630 %	ASTM D412
Tear Strength		37.7 kN/n	n ASTM D624
Compression Set ³ (23°C, 22 hr)		13 %	ASTM D395
Hardness		Nominal Value Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded		43	
Shore A, 5 sec, Injection Molded		40	
Thermal		Nominal Value Unit	Test Method

Revision Date: 12/20/2018

ISO 974

<-60.0 °C

Brittleness Temperature

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Legal Statement

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchaser assumes all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or others. There is no warranty of merchantability and there are no other warranties for the products described. For detailed Product Stewardship information, please contact us. Any product of Teknor Apex, including product names, shall not be used or tested in medical or food contact applications without the prior written acknowledgement of Teknor Apex as to the intended use. Please note that some products may not be available in one or more countries.

Processing Information				
Injection	Nominal Value	Unit		
Rear Temperature	138 to 162	°C		
Middle Temperature	162 to 180	°C		
Front Temperature	171 to 193	°C		
Nozzle Temperature	193 to 216	°C		
Processing (Melt) Temp	193 to 216	°C		
Mold Temperature	21 to 40	°C		
Injection Rate	Moderate-Fast			
Back Pressure	0.172 to 0.689	MPa		
Screw Speed	50 to 100	rpm		
Cushion	3.81 to 25.4	mm		
Injection Notes				
Drying is not necessary. However, if moisture is a problem, dry the	e pellets for 2 to 4 hours at 150°F (65°C).			
Extrusion	Nominal Value	Unit		
Cylinder Zone 1 Temp.	191 to 199	°C		

Extrusion	Nominal Value Unit
Cylinder Zone 1 Temp.	191 to 199 °C
Cylinder Zone 2 Temp.	196 to 204 °C
Cylinder Zone 3 Temp.	202 to 210 °C
Cylinder Zone 4 Temp.	204 to 221 °C
Cylinder Zone 5 Temp.	204 to 221 °C
Die Temperature	204 to 221 °C
Extrusion Notes	

Screw Speed: 30 to 100 rpm;Screen pack: from 60/200/200/60 to 60/200/400/400/200/60 mesh size

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

³ Type 1

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² Die C, 510 mm/min