

Medalist® MD-32265

Teknor Apex Company - Thermoplastic Elastomer

Saturday, September 14, 2024

General Information

Product Description

Medalist MD-32265 is a high performance thermoplastic elastomer specifically designed for overmolding and multi-shot molding applications in the healthcare/medical segment. Medalist MD-32265 is a medium hardness, medium density, RoHS compliant grade that is sterilized, and is suitable for both injection molding and extrusion.

General			
Material Status	Commercial: Active		
Availability	Africa & Middle EastAsia Pacific	EuropeLatin America	North America
Features	BondabilityBPA FreeGood AdhesionGood Colorability	Good Compression SetGood FlexibilityGood Impact ResistanceGood Moldability	Good ProcessabilityGood SterilizabilityHigh ElasticityMedium Hardness
Uses	BondingFlexible GripsGasketsHandles	 Jacketing Medical Devices Medical/Healthcare Applications Overmolding	Pharmaceuticals Rubber Replacement
Agency Ratings	• ISO 10993-5	• ISO 13485	
RoHS Compliance	 RoHS Compliant 		
Appearance	Colors Available	Natural Color	• Opaque
Forms	• Pellets		
Processing Method	• Extrusion	Injection Molding	

ASTM & ISO Properties ¹						
Physical	Nominal Value	Unit	Test Method			
Density / Specific Gravity	0.998	g/cm³	ASTM D792			
Melt Mass-Flow Rate (MFR) (230°C/5.0 kg)	2.0	g/10 min	ASTM D1238			
Elastomers	Nominal Value	Unit	Test Method			
Tensile Stress (100% Strain)	2.14	MPa	ASTM D412			
Tensile Stress (200% Strain)	3.03	MPa	ASTM D412			
Tensile Stress (300% Strain)	4.00	MPa	ASTM D412			
Tensile Strength (Break)	6.21	MPa	ASTM D412			
Tensile Elongation (Break)	600	%	ASTM D412			
Tear Strength	30.6	kN/m	ASTM D624			
Compression Set (23°C, 22 hr)	20	%	ASTM D395			
Hardness	Nominal Value	Unit	Test Method			
Durometer Hardness (Shore A)	65		ASTM D2240			
Additional Information	Nominal Value	Unit				
Adhesion to Nylon						

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.

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Processing Information					
Injection	Nominal Value	Unit			
Drying Temperature	60	°C			
Drying Time	2.0 to 4.0	hr			
Rear Temperature	160 to 182	°C			
Middle Temperature	177 to 216	°C			
Front Temperature	204 to 249	°C			
Nozzle Temperature	227 to 282	°C			
Processing (Melt) Temp	227 to 282	°C			
Mold Temperature	21 to 38	°C			
Injection Pressure	1.38 to 5.52	MPa			
Back Pressure	0.689 to 1.24	MPa			
Screw Speed	50 to 100	rpm			
Cushion	3.81 to 25.4	mm			
Injection Notes					
Moisture can degrade the material. Drying is suggested. This	s can be accomplished by placing the material in a d	esiccant dryer for 2 to 4 hours at 140°F.			
Extrusion	Nominal Value	Unit			
Cylinder Zone 1 Temp.	193 to 216	°C			
Cylinder Zone 2 Temp.	249 to 271	°C			
Cylinder Zone 3 Temp.	260 to 282	°C			
Cylinder Zone 4 Temp.	271 to 293	°C			
Die Temperature	271 to 293	°C			
Extrusion Notes					

Screw Speed: 30 to 100 rpm

Notes

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

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