

Medalist® MD-34969 (PRELIMINARY DATA)

· Colors Available

• Injection Molding

• Pellets

Teknor Apex Company - Thermoplastic Elastomer

Saturday, September 14, 2024

• Opaque

General	Information
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Product Description

Appearance

Processing Method

Forms

Medalist MD-34969 is a high performance thermoplastic elastomer specifically designed for overmolding and multi-shot molding applications in the healthcare/medical segment. Medalist MD-34969 is a medium hardness, medium density, RoHS compliant grade that bonds well to PC, ABS, PC/ABS, COPE, PET, PBT, PMMA, ASA, SAN, and POM.

General			
Material Status	Commercial: Active		
Availability	Africa & Middle EastAsia Pacific	 Europe Latin America	North America
Features	BondabilityChemical ResistantConformableCrack ResistantGood Colorability	 Good Compression Set Good Flexibility Good Flow Good Impact Resistance Good Moldability 	Good Scratch ResistanceGood ToughnessHalogen FreeMedium DensityMedium Hardness
Uses	BondingFlexible GripsGasketsMedical Devices	Medical Pump SealsMedical/Healthcare ApplicationsOvermoldingRubber Replacement	Sealing DevicesSealsSoft Touch Applications
Agency Ratings	 FDA Food Contact 		
RoHS Compliance	RoHS Compliant		

· Natural Color

• Multi Injection Molding

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ASTM & ISO Properties 1			
Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.10	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.0	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (50% Strain)	2.48	MPa	ASTM D412
Tensile Stress ^{2, 3} (100% Strain)	3.10	MPa	ASTM D412
Tensile Stress ² (300% Strain)	4.69	MPa	ASTM D412
Tensile Strength ⁴ (Break)	6.27	MPa	ASTM D412
Tensile Elongation ^{2, 3} (Break)	560	%	ASTM D412
Tear Strength	37.7	kN/m	ASTM D624
Compression Set			ASTM D395
23°C, 22 hr	21	%	
70°C, 22 hr	72	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness ³			ASTM D2240
Shore A, 1 sec, Injection Molded	74		

Revision Date: 6/1/2021

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Shore A, 5 sec, Injection Molded

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Additional Information	Nominal Value Unit
Adhesion to ABS	
Adhesion to PBT	
Adhesion to PC	
Adhesion to PC/ABS	
Adhesion to PMMA	
Adhesion to CoPE (Tritan®)	
T 104 4	

Legal Statement

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Processing Information			
Injection	Nominal Value	Unit	
Drying Temperature	80	°C	
Drying Time	3.0 to 4.0	hr	
Rear Temperature	200 to 240	°C	
Middle Temperature	200 to 250	°C	
Front Temperature	220 to 250	°C	
Nozzle Temperature	220 to 250	°C	
Processing (Melt) Temp	220 to 250	°C	
Mold Temperature	32 to 54	°C	
Injection Pressure	1.38 to 5.52	MPa	
Injection Rate	Fast		
Back Pressure	0.172 to 0.689	MPa	
Screw Speed	50 to 100	rpm	
Cushion	3.81 to 25.4	mm	

Drying is strongly suggested to enhance bondability.

Notes

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

² Die C, 510 mm/min

³ TBD

⁴ 510 mm/min

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