

Medalist® MD-34940

Teknor Apex Company - Thermoplastic Elastomer

Saturday, September 14, 2024

General	Information
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Product Description

Processing Method

Medalist MD-34940 is a high performance thermoplastic elastomer specifically designed for overmolding and multi-shot molding applications in the healthcare/medical segment. Medalist MD-34940 is a low hardness, low density, RoHS compliant sterilizable 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 East Asia Pacific	 Europe Latin America	North America
Features	 Abrasion Resistant Bondability Chemical Resistant Conformable Crack Resistant E-beam Sterilizable 	 Good Colorability Good Flexibility Good Flow Good Impact Resistance Good Moldability Good Scratch Resistance 	Good ToughnessHalogen FreeLow DensityLow Hardness
Uses	BondingGaskets	 Medical/Healthcare Applications Overmolding	Soft Touch Applications
Agency Ratings	• ISO 10993-5	• ISO 13485	
RoHS Compliance	RoHS Compliant		
Appearance	Colors Available	Natural Color	• Opaque
Forms	• Pellets		

• Multi Injection Molding

• Injection Molding

AS	ΓM & ISO Properties ¹		
Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.940	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.60	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ² (50% Strain)	0.862	MPa	ASTM D412
Tensile Stress ² (100% Strain)	1.17	MPa	ASTM D412
Tensile Strength ² (Break)	5.52	MPa	ASTM D412
Tensile Elongation ² (Break)	660	%	ASTM D412
Compression Set			ASTM D395
23°C, 22 hr	10	%	
70°C, 22 hr	57	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	42		
Shore A, 5 sec, Injection Molded	40		
Additional Information	Nominal Value	Unit	
Adhesion to ABS			
Adhesion to PBT			
Adhesion to PC			
Adhesion to PC/ABS			

Revision Date: 7/16/2021

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 purchasers assume 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 by others. There is no warranty of merchantability and there are no other warranties for the products described.

Adhesion to COPE

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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	193 to 232	°C	
Middle Temperature	200 to 250	°C	
Front Temperature	220 to 260	°C	
Nozzle Temperature	220 to 260	°C	
Processing (Melt) Temp	220 to 260	°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	

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Drying is strongly suggested to enhance bondability

Notes

² Die C, 510 mm/min

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