Medalist® MD-34065

Thermoplastic Elastomer

Teknor Apex Company

Message:

Medalist MD-34065 is a high performance thermoplastic elastomer intended for use in medical and healthcare applications, particularly overmolding. Medalist MD-34065 is a medium hardness, low density grade with excellent bonding to PC, ABS, and PC/ABS.

General Information	
Uses	Safety equipment Drug Medical/nursing supplies
RoHS Compliance	RoHS compliance
Appearance	Opacity
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.998	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	6.4	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shaw A	75		ASTM D2240
Shaw A, 5 seconds	73		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	8.96	MPa	ASTM D412
Tensile Elongation (Break)	600	%	ASTM D412

Additional Information	Nominal Value
Adhesion to ABS	
Adhesion to PC	
Adhesion to PC/ABS	

Injection	Nominal Value	Unit

Drying Temperature	66	°C
Drying Time	2.0 - 4.0	hr
Rear Temperature	127 - 149	°C
Middle Temperature	138 - 160	°C
Front Temperature	149 - 171	°C
Nozzle Temperature	171 - 193	°C
Processing (Melt) Temp	171 - 193	°C
Mold Temperature	21 - 38	°C
Injection Pressure	1.38 - 5.52	MPa
Back Pressure	0.172 - 0.689	MPa
Screw Speed	50 - 100	rpm
Cushion	3.81 - 25.4	mm

Injection instructions
Drying is suggested for enhanced bondability - Dry the pellets for 2 to 4 hours at 150°F (65°C).

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	138 - 149	°C
Cylinder Zone 2 Temp.	149 - 160	°C
Cylinder Zone 3 Temp.	160 - 182	°C
Cylinder Zone 4 Temp.	160 - 182	°C
Cylinder Zone 5 Temp.	171 - 193	°C
Die Temperature	182 - 204	°C

Extrusion instructions
Screw Speed: 30 to 100 rpm

Recommended distributors for this material

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