

Medalist® MD-17365 (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

Message:

Medalist MD-17365 is a high performance thermoplastic elastomer, available in NAT and colors, specifically designed for healthcare and medical applications. Medalist MD-17365 is a medium hardness, low density, lubricated, halogen-free grade that can be sterilized and is suitable for injection molding and extrusion.

General Information	
Features	Low Specific Gravity
	Without Fillers
	Low density
	Radiation disinfection
	Pressure cooker disinfection
	smoothness
	Ethylene oxide disinfection
	Anti-gamma radiation
	Good formability
	Good flexibility
	Good coloring
	Low liquidity
	Good chemical resistance
	Halogen-free
	Elastic
	Medium hardness
Uses	Disposable Hospital Goods
	Handle
	Plug
	Bushing
	Washer
	Connector
	Seals
	Airbag
	Soft handle
	Rubber substitution
	Knob
	Drug
	Medical/nursing supplies
Agency Ratings	ISO 10993 Part 5

RoHS Compliance	RoHS compliance
Appearance	Translucent Available colors Natural color
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.888	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 second, injection molding	68		ASTM D2240
Shore A, 5 seconds, injection molding	66		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	2.48	MPa	ASTM D412
300% strain	4.48	MPa	ASTM D412
Tensile Strength (Break)	11.7	MPa	ASTM D412
Tensile Elongation (Break)	750	%	ASTM D412
Compression Set			ASTM D395
23°C, 22 hr	16	%	ASTM D395
70°C, 22 hr	84	%	ASTM D395

Legal statement

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Injection	Nominal Value	Unit
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 not necessary. However, if moisture is a problem, 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

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