

Medalist® MD-16163

Thermoplastic Elastomer

Teknor Apex Company

Message:

Medalist MD-16163 is designed for medical and healthcare applications requiring high elasticity and tensile strength. Medalist MD-16163 is an opaque grade, can be sterilized and is suitable for injection molding and extrusion. Every ingredient used to formulate this product is either "generally recognized as safe" (GRAS), prior sanctioned, subject to an effective Food Contact Notification (FCN), subject to a Threshold of Regulation (TOR) or identified in one or more sections of Title 21 of the code of Federal Regulations published by the US FDA.

General Information	
Features	Electron beam disinfection Radiation disinfection Pressure cooker disinfection Ethylene oxide disinfection Good liquidity High pressure heating resistance
Uses	Handle Films Rubber substitution Medical/nursing supplies Medical devices
Appearance	Opacity
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A	65		ASTM D2240
Shaw A, 5 seconds	63		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	1.90	MPa	ASTM D412
200% strain	2.26	MPa	ASTM D412
300% strain	2.67	MPa	ASTM D412

Tensile Strength (Break)	6.60	MPa	ASTM D412
Tensile Elongation (Break)	730	%	ASTM D412
Tear Strength - Flow	27.3	kN/m	ASTM D624
Compression Set	22	%	ASTM D395

Injection	Nominal Value	Unit
Rear Temperature	199 - 210	°C
Middle Temperature	204 - 216	°C
Front Temperature	210 - 221	°C
Nozzle Temperature	216 - 227	°C
Processing (Melt) Temp	216 - 227	°C
Mold Temperature	35.0 - 65.6	°C
Injection Pressure	1.38 - 6.89	MPa
Injection Rate	Fast	
Back Pressure	0.172 - 0.862	MPa
Screw Speed	50 - 120	rpm
Cushion	3.81 - 25.4	mm

Injection instructions

无需干燥.但如果湿度过大,则将粒料在150°F (65°C)的温度下干燥2-4小时.

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	193 - 204	°C
Cylinder Zone 2 Temp.	199 - 210	°C
Cylinder Zone 3 Temp.	204 - 216	°C
Cylinder Zone 5 Temp.	210 - 221	°C
Die Temperature	216 - 227	°C

Extrusion instructions

螺杆转速30 - 100 rpm

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