Medalist® MD-12337

Teknor Apex Company - Thermoplastic Elastomer

Wednesday, April 1, 2026

General Information

Product Description

Medalist MD-12337 is a high performance thermoplastic elastomer specifically designed for healthcare and medical applications, particularly extruded medical tubing and injection molding applications for medical devices. Medalist MD-12337 is a low hardness, low density, RoHS compliant grade that can be sterilized and is suitable for both injection molding and extrusion.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Autoclave Sterilizable • BPA Free • Cleanable • Ethylene Oxide Sterilizable • Good Color Stability	• Good Colorability • Good Compression Set • Good Processing Stability • High Purity • Low Density	• Low Hardness • No Animal Derived Components • Radiation (Gamma) Resistant
Uses	• Medical/Healthcare Applications	• Pharmaceuticals	
Agency Ratings	• ISO 10993-5	• ISO 13485	
RoHS Compliance	• RoHS Compliant		
Appearance	• Translucent		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.890		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	0.40	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (50% Strain)	105	psi	ASTM D412
Tensile Stress (100% Strain)	145	psi	ASTM D412
Tensile Stress (300% Strain)	360	psi	ASTM D412
Tensile Strength (Break)	1270	psi	ASTM D412
Tensile Elongation (Break)	720	%	ASTM D412
Tear Strength	150	lbf/in	ASTM D624
Compression Set			ASTM D395
73°F, 22 hr	12	%	
158°F, 22 hr	77	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec	39		
Shore A, 5 sec	37		

Legal Statement

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	300 to 340	°F
Middle Temperature	340 to 380	°F
Front Temperature	380 to 440	°F
Nozzle Temperature	380 to 440	°F
Processing (Melt) Temp	380 to 440	°F
Mold Temperature	70 to 125	°F
Back Pressure	50.0 to 150	psi
Screw Speed	50 to 100	rpm
Cushion	0.140 to 1.00	in

Injection Notes

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.	340 to 370	°F
Cylinder Zone 2 Temp.	360 to 385	°F
Cylinder Zone 3 Temp.	365 to 400	°F
Cylinder Zone 4 Temp.	372 to 419	°F
Cylinder Zone 5 Temp.	400 to 440	°F
Die Temperature	400 to 440	°F

Extrusion Notes

Screw Speed: 30 to 100 rpm

Screen Pack Recommendation: 60/200/200/60 to 60/200/400/400/200/60 mesh size

Notes

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

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