Medalist® MD-12130 AP NAT (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Wednesday, April 1, 2026

General Information

Product Description

The Medalist MD-12100 Series are high performance thermoplastic elastomers designed for use in medical and healthcare applications requiring high elasticity and excellent moldability. Medalist MD-12130 AP is a low hardness, low density grade, available in NAT and colors, which can be sterilized and exhibits excellent adhesion to polypropylene.

General			
Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Autoclave Sterilizable • Chemical Resistant • Ethylene Oxide Sterilizable • Good Adhesion • Good Colorability • Good Flexibility	• Good Moldability • Good Sterilizability • Good Toughness • Halogen Free • Low Density • Low Flow	• Low Hardness • Low Specific Gravity • Radiation (Gamma) Resistant • Resilient • Slip • Without Fillers
Uses	• Bushings • Connectors • Flexible Grips • Gaskets • Grommets	• Handles • Knobs • Medical/Healthcare Applications • Overmolding • Pharmaceuticals	• Rubber Replacement • Seals • Soft Touch Applications
Agency Ratings	• ISO 10993-5	• ISO 13485	
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	• Translucent
Forms	• Pellets		
Processing Method	• Injection Molding	• Multi Injection Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.882		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.0	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2] (50% Strain)	120	psi	ASTM D412
Tensile Stress [2] (100% Strain)	150	psi	ASTM D412
Tensile Stress [2] (300% Strain)	240	psi	ASTM D412
Tensile Strength [2] (Break)	405	psi	ASTM D412
Tensile Elongation [2] (Break)	540	%	ASTM D412
Tear Strength [2]	69.0	lbf/in	ASTM D624
Compression Set [3]			ASTM D395
73°F, 22 hr	13	%	
158°F, 22 hr	20	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec	32		
Shore A, 5 sec	30		

Revision Date: 10/11/2022

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	320 to 350	°F
Middle Temperature	360 to 400	°F
Front Temperature	380 to 420	°F
Nozzle Temperature	360 to 440	°F
Processing (Melt) Temp	360 to 440	°F
Mold Temperature	80 to 120	°F
Injection Rate	Fast	
Back Pressure	50.0 to 150	psi
Screw Speed	50 to 100	rpm
Cushion	0.150 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).

For applications where adhesion or overmolding to polypropylene (PP) is required, a higher processing temperature (up to 480 °F) is recommended.

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 399	°F
Cylinder Zone 4 Temp.	399 to 441	°F
Cylinder Zone 5 Temp.	399 to 441	°F
Die Temperature	399 to 441	°F

Extrusion Notes

Screw Speed: 30 to 100 rpm; Screen pack: from 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.

[2] Die C, 20 in/min

[3] Type 1

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