Medalist® MD-490 AP NAT (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Wednesday, April 1, 2026

General Information

Product Description

Medalist® MD-490 AP NAT is a high performance thermoplastic elastomer designed for medical and healthcare applications. Medalist MD-490 AP NAT is a clear, low hardness, low density, unfilled, lubricated grade that is suitable for injection molding.

General			
Material Status	• Preliminary Data		
Availability	• North America		
Features	• Chemical Resistant • Good Adhesion • Good Processability • Good Sterilizability	• Halogen Free • High Flow • Low Density • Low Hardness	• Lubricated • Slip • Without Fillers
Uses	• Bushings • Disposable Hospital Goods • Flexible Grips • Gaskets	• Grommets • Handles • Knobs • Medical/Healthcare Applications	• Plugs • Rubber Replacement • Soft Touch Applications
Agency Ratings	• ISO 13485		
RoHS Compliance	• RoHS Compliant		
Appearance	• Clear/Transparent	• Natural Color	
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.912		ASTM D792
Melt Mass-Flow Rate (MFR) (150°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	870	psi	ASTM D412
Tensile Elongation (Break)	700	%	ASTM D412
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	44		
Shore A, 5 sec, Injection Molded	42		

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	360 to 450	°F
Middle Temperature	370 to 460	°F
Front Temperature	380 to 470	°F
Nozzle Temperature	390 to 480	°F
Processing (Melt) Temp	390 to 480	°F

Revision Date: 3/17/2026

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Injection	Nominal Value	Unit
Mold Temperature	50 to 90	°F
Injection Pressure	200 to 800	psi
Injection Rate	Fast	
Back Pressure	25.0 to 100	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).

Notes

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

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