Medalist® MD-10109 AP NAT XRD1 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Wednesday, April 1, 2026

General Information

Product Description

Medalist MD-10109 AP is a high performance thermoplastic elastomer, available in NAT and colors, intended for use in medical and healthcare applications, including mask seals. Medalist MD-10109 AP is a very soft, low density grade suitable for overmolding and injection molding.

General			
Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Autoclave Sterilizable • Bondability • Chemical Resistant • Ethylene Oxide Sterilizable • Good Adhesion • Good Colorability	• Good Moldability • Good Processability • Good Sterilizability • Halogen Free • High Elasticity • Low Density	• Low Hardness • Low Specific Gravity • Lubricated • Radiation (Gamma) Resistant
Uses	• Dental Applications • Flexible Grips • Medical/Healthcare Applications	• Overmolding • Rubber Replacement • Seals	• Soft Touch Applications
Agency Ratings	• ISO 10993-5	• ISO 13485	
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.892		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.50	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	174	psi	ASTM D412
Tensile Elongation [2] (Break)	500	%	ASTM D412
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	14		
Shore A, 5 sec, Injection Molded	12		

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

Revision Date: 3/23/2026

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Injection	Nominal Value	Unit
Nozzle Temperature	380 to 440	°F
Processing (Melt) Temp	380 to 440	°F
Mold Temperature	70 to 125	°F
Injection Pressure	50.0 to 150	psi
Back Pressure	50.0 to 100	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).

Notes

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

[2] Die C, 20 in/min

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