Medalist® MD-16234 AP NAT XRD2 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Wednesday, April 1, 2026

General Information

Product Description

Medalist MD-16234 AP NAT XRD2 is a high performance thermoplastic elastomer specifically designed for healthcare and medical applications that need overmolding onto PC/ABS. Medalist MD-16234 AP NAT XRD2 is a low hardness and low density grade that is suitable for extrusion and injection molding.

General			
Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Colorability • Good Flexibility • Good Processability • Good Stretchability • Good Toughness	• High Elasticity • Low Density • Low Hardness • Low Specific Gravity • Puncture Resistant	• Resilient • Tack Free • Wear Resistant • Without Fillers
Uses	• Cast Film • Dental Applications • Film	• Hospital Goods • Medical Devices • Medical/Healthcare Applications	• Rubber Replacement • Sheet
Agency Ratings	• ISO 10993-5	• ISO 13485	
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color	• Translucent	
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.972		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.5	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2] (300% Strain)	435	psi	ASTM D412
Tensile Strength [2] (Break)	653	psi	ASTM D412
Tensile Elongation [2] (Break)	450	%	ASTM D412
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	38		
Shore A, 5 sec, Injection Molded	36		

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Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	330 to 380	°F
Cylinder Zone 2 Temp.	350 to 400	°F
Cylinder Zone 3 Temp.	370 to 420	°F
Cylinder Zone 4 Temp.	370 to 440	°F
Die Temperature	370 to 440	°F

Extrusion Notes

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).
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

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