Monprene® SP-16435D NAT XRD1

Teknor Apex Company - Thermoplastic Elastomer

Friday, April 3, 2026

General Information

Product Description

Monprene SP-16435D NAT XRD1, available in NAT, is a high performance thermoplastic elastomer designed for a variety of consumer product applications requiring low density, high hardness grade that is suitable for injection molding.

General			
Material Status	• Preliminary Data		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Features	• Good Colorability • Good Moldability • Good Toughness	• High Hardness • Low Density • Moisture Resistant	• Wear Resistant
Uses	• Consumer Applications • Flexible Grips • Gaskets	• Grommets • Handles • Plugs	• Sporting Goods • Swimming Pools • Water Sports Equipment
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color	• Translucent	
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.908		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/5.0 kg)	3.4	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (100% Strain)	1000	psi	ASTM D412
Tensile Stress (300% Strain)	1320	psi	ASTM D412
Tensile Strength (Break)	3390	psi	ASTM D412
Tensile Elongation (Break)	660	%	ASTM D412
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D, 1 sec, Injection Molded)	37		ASTM D2240

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	320 to 410	°F
Middle Temperature	338 to 428	°F
Front Temperature	356 to 446	°F
Nozzle Temperature	356 to 446	°F
Processing (Melt) Temp	356 to 446	°F
Mold Temperature	68 to 122	°F
Injection Rate	Fast	
Screw Speed	50 to 100	rpm

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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