Monprene® SP-14140 NAT XRD3 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Thursday, April 2, 2026

General Information

Product Description

Monprene SP-14140 NAT XRD3 is a high performance thermoplastic elastomer designed for a variety of sport product applications requiring a soft, rubber-like feel. Monprene SP-14140 NAT XRD3 is a low density, low hardness grade that is suitable for injection molding.

General			
Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Abrasion Resistant • Chlorine Resistant • Fatigue Resistant	• Good Colorability • Good Flexibility • Good Flow	• Good Tear Strength • Low Density • Low Hardness
Uses	• Rubber Replacement	• Sporting Goods	• Water Sports Equipment
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) (230°C/10.0 kg)	1.5	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (100% Strain)	290	psi	ASTM D412
Tensile Stress (300% Strain)	580	psi	ASTM D412
Tensile Strength (Break)	798	psi	ASTM D412
Tensile Elongation (Break)	500	%	ASTM D412
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	43		
Shore A, 5 sec, Injection Molded	40		

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	356 to 428	°F
Middle Temperature	356 to 428	°F
Front Temperature	356 to 500	°F
Nozzle Temperature	356 to 500	°F
Processing (Melt) Temp	356 to 500	°F
Mold Temperature	68 to 104	°F
Injection Rate	Moderate-Fast	

Injection Notes

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

Notes

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

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