Monprene® R7 CP-18150 NAT XRD2 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Thursday, April 2, 2026

General Information

Product Description

Monprene R7 CP-18150 NAT XRD2 is formulated to contain post-consumer recycled (PCR) content, reducing dependency on virgin petroleum-based plastic and contributing towards a circular economy. These material is designed for injection molding or overmolding onto polypropylene, perform and process like prime TPE. Monprene R7 CP-18150 NAT XRD2 is a 50 Shore A TPE containing minimum 70% PCR content.

General			
Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Contact Clarity • Good Moldability • Good Processability • High Elasticity	• High Flow • Low Density • Low Specific Gravity • Lubricated	• Medium Hardness • Without Fillers
Uses	• Consumer Applications • Gaskets	• General Purpose • Handles	
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	0.892		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	55	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (300% Strain)	400	psi	ASTM D412
Tensile Strength (Break)	1300	psi	ASTM D412
Tensile Elongation (Break)	700	%	ASTM D412
Compression Set (73°F, 22 hr)	20	%	ASTM D395B
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	52		
Shore A, 5 sec, Injection Molded	50		

Legal Statement

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	338 to 428	°F
Middle Temperature	356 to 446	°F
Front Temperature	374 to 464	°F
Nozzle Temperature	392 to 482	°F
Processing (Melt) Temp	392 to 482	°F
Mold Temperature	68 to 104	°F
Injection Rate	Fast	

Injection Notes

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 80 °C.

Notes

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

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