Monprene® IN-15071 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Wednesday, April 1, 2026

General Information

Product Description

Monprene IN-15071 is a general purpose thermoplastic elastomer designed for the industrial market, including seals and gaskets. Monprene IN-15071 is a medium hardness, low density, RoHS compliant grade suitable for injection molding and extrusion.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Bondability • Good Colorability • Good Mold Release • Good Moldability	• Good Processability • Low Density • Low Flow • Low Specific Gravity	• Medium Hardness • Without Fillers
Uses	• Closures • Consumer Applications • Gaskets • Handles	• Kitchenware • Medical/Healthcare Applications • Packaging • Safety Equipment	• Sporting Goods • Toothbrush Handles • Tubing • Writing Instruments
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	• Translucent
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.892		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.5	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2] (100% Strain)	365	psi	ASTM D412
Tensile Stress [2] (300% Strain)	710	psi	ASTM D412
Tensile Strength [2] (Break)	1590	psi	ASTM D412
Tensile Elongation [2] (Break)	700	%	ASTM D412
Tear Strength [2]	325	lbf/in	ASTM D624
Compression Set (73°F, 22 hr)	18	%	ASTM D395
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec	78		
Shore A, 5 sec	77		

Legal Statement

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	395 to 430	°F

Revision Date: 2/1/2022

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Injection	Nominal Value	Unit
Middle Temperature	400 to 445	°F
Front Temperature	400 to 450	°F
Nozzle Temperature	400 to 450	°F
Processing (Melt) Temp	400 to 450	°F
Mold Temperature	70 to 120	°F
Injection Pressure	200 to 801	psi
Injection Rate	Fast	
Back Pressure	25.0 to 100	psi
Screw Speed	50 to 100	rpm
Cushion	0.150 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).

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	390 to 430	°F
Cylinder Zone 2 Temp.	390 to 440	°F
Cylinder Zone 3 Temp.	390 to 450	°F
Cylinder Zone 5 Temp.	390 to 450	°F
Die Temperature	390 to 450	°F

Extrusion Notes

Screw Speed: 30 to 100 rpm

Notes

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

[2] Die C, 20 in/min

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