Monprene® CP-28128 X4 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Wednesday, April 1, 2026

General Information

Product Description

Monprene CP-28128 X4 is a general purpose thermoplastic elastomer designed for a variety of consumer product applications requiring a soft, rubber-like feel. Monprene CP-28128 X4 is a low hardness, low density grade that exhibits excellent melt strength and flexibility characteristics. This grade is suitable for both injection molding and extrusion.

General			
Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • Good Adhesion • Good Colorability • Good Flexibility • Good Melt Strength • Good Moldability	• Good Processability • Good Tear Strength • Good Toughness • Halogen Free • High Elongation • High Tensile Strength	• Low Compression Set • Low Density • Low Flow • Low Hardness • Resilient
Uses	• Flexible Grips • Foam • Gaskets • General Purpose	• Handles • Hose • Knobs • Profiles	• Rubber Replacement • Seals • Tubing • Windows & Doors
RoHS Compliance	• RoHS Compliant		
Appearance	• Clear/Transparent	• Colors Available	• Natural Color
Forms	• Pellets		
Processing Method	• Cast Film	• Extrusion	• Injection Molding

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.880		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.5	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress - Flow [2] (100% Strain)	90.0	psi	ASTM D412
Tensile Stress - Flow [2] (300% Strain)	170	psi	ASTM D412
Tensile Strength - Flow [2] (Break)	1460	psi	ASTM D412
Tensile Elongation - Flow [2] (Break)	860	%	ASTM D412
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	30		
Shore A, 5 sec, Injection Molded	28		

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Revision Date: 6/1/2016

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	340 to 440	°F
Middle Temperature	340 to 440	°F
Front Temperature	340 to 440	°F
Nozzle Temperature	340 to 440	°F
Processing (Melt) Temp	340 to 440	°F
Mold Temperature	60 to 90	°F
Injection Pressure	200 to 800	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.	340 to 440	°F
Cylinder Zone 2 Temp.	340 to 440	°F
Cylinder Zone 3 Temp.	340 to 440	°F
Cylinder Zone 4 Temp.	340 to 440	°F
Cylinder Zone 5 Temp.	340 to 440	°F
Die Temperature	340 to 440	°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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