Monprene® CP-37942

Teknor Apex Company - Thermoplastic Elastomer

Wednesday, April 1, 2026

General Information

Product Description

Monprene CP-37942 is a general purpose thermoplastic elastomer designed for a variety of consumer product applications requiring a soft, rubber-like feel. Monprene CP-37942 is a high density, medium hardness grade that exhibits excellent anti-vibration characteristics. This grade is suitable for both injection molding and extrusion.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Filled • Good Processability • Good Weather Resistance	• High Density • High Specific Gravity • Light Stabilized	• Low Flow • Lubricated • Medium Hardness
Uses	• Agricultural Applications • Appliance Components • Consumer Applications • Flexible Grips • Gaskets	• Grommets • Handles • Knobs • Plugs • Profiles	• Rubber Replacement • Sporting Goods • White Goods & Small Appliances
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	• Opaque
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.22		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]			ASTM D412
Across Flow : 100% Strain	128	psi	
Flow : 100% Strain	187	psi	
Tensile Stress [2]			ASTM D412
Across Flow : 300% Strain	200	psi	
Flow : 300% Strain	257	psi	
Tensile Strength [2]			ASTM D412
Across Flow : Break	960	psi	
Flow : Break	548	psi	
Tensile Elongation [2]			ASTM D412
Across Flow : Break	770	%	
Flow : Break	710	%	
Tear Strength [2]			ASTM D624
Across Flow	114	lbf/in	
Flow	95.0	lbf/in	
Compression Set [3]			ASTM D395B
73°F, 22 hr	14	%	
158°F, 22 hr	36	%	

Revision Date: 2/20/2019

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Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	45		
Shore A, 5 sec, Injection Molded	42		

Legal Statement

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	400 to 440	°F
Middle Temperature	400 to 440	°F
Front Temperature	400 to 440	°F
Nozzle Temperature	400 to 440	°F
Processing (Melt) Temp	400 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.	380 to 420	°F
Cylinder Zone 2 Temp.	380 to 420	°F
Cylinder Zone 3 Temp.	380 to 420	°F
Cylinder Zone 4 Temp.	380 to 420	°F
Cylinder Zone 5 Temp.	380 to 420	°F
Die Temperature	380 to 420	°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

[3] Type 1

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