



Monprene® CP-29992

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Monprene CP-29992 is a high performance lubricated thermoplastic elastomer designed for a variety of consumer product applications requiring a soft, rubber-like feel. Monprene CP-29992 is a high hardness grade that exhibits sunlight resistance and UV absorbing characteristics, 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	• High Hardness • Light Stabilized • Low Density • Low Flow • Low Specific Gravity	• Lubricated • Slip • Without Fillers
Uses	• Consumer Applications • Gaskets	• Handles • Tubing	
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	• Opaque
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.890		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ²			ASTM D412
Across Flow : 100% Strain	1040	psi	
Flow : 100% Strain	1430	psi	
Tensile Stress ²			ASTM D412
Across Flow : 300% Strain	1160	psi	
Flow : 300% Strain	1660	psi	
Tensile Strength ²			ASTM D412
Across Flow : Break	2470	psi	
Flow : Break	2030	psi	
Tensile Elongation ²			ASTM D412
Across Flow : Break	760	%	
Flow : Break	480	%	
Compression Set ³			ASTM D395B
73°F, 22 hr	36	%	
158°F, 22 hr	55	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	94		
Shore A, 5 sec, Injection Molded	92		

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	440 to 480	°F
Middle Temperature	440 to 480	°F
Front Temperature	440 to 480	°F
Nozzle Temperature	440 to 480	°F
Processing (Melt) Temp	440 to 480	°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.	420 to 460	°F
Cylinder Zone 2 Temp.	420 to 460	°F
Cylinder Zone 3 Temp.	420 to 460	°F
Cylinder Zone 4 Temp.	420 to 460	°F
Cylinder Zone 5 Temp.	420 to 460	°F
Die Temperature	420 to 460	°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