Monprene® CP-16525 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Wednesday, April 1, 2026

General Information

Product Description

The Monprene® CP-16500 series of thermoplastic elastomers (TPEs) is specifically designed for dog toys, offering a sustainable alternative to thermoset rubber with excellent recyclability. Available from 25 to 65 Shore A, these TPEs are formulated with only FDA listed ingredients and mold thick and thin parts with ease. Monprene CP-16525 is a transparent, medium gloss TPE that offers an excellent balance of economics and toughness.

General			
Material Status	• Commercial: Active		
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 Density • Low Hardness • Medium Flow • Medium Gloss • Resilient • Without Fillers
Uses	• Consumer Applications • Flexible Grips • General Purpose	• Knobs • Overmolding • Plugs	• Rubber Replacement • Soft Touch Applications • Toys
RoHS Compliance	• RoHS Compliant		
Appearance	• Clear/Transparent	• Colors Available	• Natural Color
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.890		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.8	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ASTM D412
Across Flow : 100% Strain	55.0	psi	
Flow : 100% Strain	90.0	psi	
Tensile Stress [2]			ASTM D412
Across Flow : 300% Strain	103	psi	
Flow : 300% Strain	257	psi	
Tensile Strength [2]			ASTM D412
Across Flow : Break	1040	psi	
Flow : Break	897	psi	
Tensile Elongation [2]			ASTM D412
Across Flow : Break	910	%	
Flow : Break	860	%	
Tear Strength [2]			ASTM D624
Across Flow	126	lbf/in	
Flow	101	lbf/in	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	25		
Shore A, 5 sec, Injection Molded	24		

Revision Date: 6/25/2021

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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	

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).

Notes

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

[2] Die C, 20 in/min

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