

TEKNOR APEX

Monprene® CP-16532 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

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-16532 is a translucent, medium gloss specialty TPE that offers excellent tear strength and superior resistance to puncture and tear propagation.

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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 Flow Low Hardness Medium Gloss Resilient Without Fillers
Uses	Consumer ApplicationsFlexible GripsGeneral Purpose	KnobsOvermoldingPlugs	 Rubber Replacement Soft Touch Applications Toys
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent	Colors Available	Natural Color
Forms	Pellets		
Processing Method	Injection Molding		

AST	[•] M & ISO 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)	1.7	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ²			ASTM D412
Across Flow : 100% Strain	84.0	psi	
Flow : 100% Strain	130	psi	
Tensile Stress ²			ASTM D412
Across Flow : 300% Strain	206	psi	
Flow : 300% Strain	350	psi	
Tensile Strength ²			ASTM D412
Across Flow : Break	1390	psi	
Flow : Break	879	psi	
Tensile Elongation ²			ASTM D412
Across Flow : Break	800	%	
Flow : Break	670	%	
Tear Strength ²			ASTM D624
Across Flow	223	lbf/in	
Flow	143	lbf/in	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	33		
Shore A, 5 sec, Injection Molded	31		



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Nominal Value Unit			
340 to 440 °F			
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60 to 90 °F			
200 to 800 psi			
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