+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

TEKNOR APEX

Monprene® CP-11150 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

The Monprene CP-11100 High Density Series of thermoplastic elastomer compounds, available in NAT or colors, from 40 to 90 Shore A, are designed specifically for consumer product applications requiring a soft, rubber-like feel. Monprene CP-11150 is a medium hardness, high density, filled grade that is suitable for injection molding.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • Filled • General Purpose • Good Adhesion	• Good Colorability • Good Flexibility • Good Processability • High Density	• High Specific Gravity • Medium Hardness
Uses	• Appliances • Consumer Applications • Flexible Grips • Furniture • Handles • Household Goods	• Knobs • Personal Care • Rubber Replacement • Safety Equipment • Soft Touch Applications • Sporting Goods	• Stationary Supplies • Toys • Water Sports Equipment • Writing Instruments
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Opaque	
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.15		ISO 1183
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress - Across Flow (100% Strain)	145	psi	ISO 37
Tensile Stress - Across Flow (Break)	1250	psi	ISO 37
Tensile Elongation - Across Flow (Break)	900	%	ISO 37
Tear Strength [2]			ISO 34-1
Across Flow	108	lbf/in	
Flow	126	lbf/in	
Compression Set [3] (158°F, 22 hr)	28	%	ISO 815
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A, 5 sec)	50		ISO 868
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Apparent Shear Viscosity - Capillary, @ 206/s (392°F)	207	Pa·s	ASTM D3835

+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

Monprene® CP-11150 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	320 to 350	°F
Middle Temperature	360 to 400	°F
Front Temperature	380 to 420	°F
Nozzle Temperature	360 to 440	°F
Processing (Melt) Temp	360 to 440	°F
Mold Temperature	80 to 120	°F
Injection Rate	Moderate-Fast	
Back Pressure	25.0 to 100	psi
Screw Speed	50 to 100	rpm
Cushion	0.150 to 0.500	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).

Notes

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

[2] Method Ba, Angle (Unnicked)

[3] Type A