+135-3858-6433 (GuangDong)
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TEKNOR APEX

Monprene® CP-18250 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

The Monprene CP-18200 Unfilled, High Flow Series of thermoplastic elastomer compounds, with good UV resistance, available in NAT or colors, from 40 to 80 Shore A, are designed specifically for EU consumer product applications requiring a soft, rubber-like feel. Monprene CP-18250 is a medium hardness, low density 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 • Good Adhesion • Good Colorability • Good Flexibility	• Good Flow • Good Moldability • Good Toughness • Low Density	• Low Specific Gravity • Medium Hardness • UV Resistant • Without Fillers
Uses	• Bushings • Consumer Applications • Flexible Grips • Gaskets • General Purpose	• Grommets • Handles • Knobs • Luggage • Overmolding	• Plugs • Rubber Replacement • Soft Touch Applications
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Translucent	
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.890	g/cm³	ISO 1183
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (100% Strain)	203	psi	ISO 37
Tensile Stress (300% Strain)	290	psi	ISO 37
Tensile Strength (Break)	1090	psi	ISO 37
Tensile Elongation (Break)	800	%	ISO 37
Compression Set			ISO 815
73°F, 22 hr	24	%	
158°F, 22 hr	44	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 5 sec)	50		ISO 868
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Apparent Viscosity (392°F, 206 sec^-1)	99.0	Pa·s	ISO 11443

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	248 to 320	°F
Middle Temperature	320 to 446	°F
Front Temperature	356 to 446	°F
Nozzle Temperature	356 to 446	°F
Processing (Melt) Temp	356 to 446	°F
Mold Temperature	60 to 90	°F
Injection Rate	Fast	
Back Pressure	72.5 to 218	psi
Screw Speed	50 to 100	rpm
Cushion	0.118 to 0.984	in

Injection Notes

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 65°C (150°F).
Low holding pressure is recommended

Notes

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