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

TEKNOR APEX

Monprene® SP-13433

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Monprene SP-13433, available in NAT and colors, is a high performance thermoplastic elastomer designed for a variety of consumer product applications requiring a soft, rubber-like feel. Monprene SP-13433 is a low density, low hardness, lubricated grade that is suitable for injection molding.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Flow • Good Mold Release • Good Moldability • Good Processability	• Low Density • Low Hardness • Low Specific Gravity • Lubricated	• Medium Flow • Sound Damping • Vibration Damping • Without Fillers
Uses	• Consumer Applications • Gaskets	• Handles • Safety Equipment	• Shock Absorbing Pads • Sporting Goods
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	• Translucent
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.900		ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	3.0	g/10 min	
200°C/5.0 kg	35	g/10 min	
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ASTM D412
Across Flow : 100% Strain	57.0	psi	
Flow : 100% Strain	64.0	psi	
Tensile Stress [2]			ASTM D412
Across Flow : 300% Strain	75.0	psi	
Flow : 300% Strain	83.0	psi	
Tensile Strength [2]			ASTM D412
Across Flow : Break	773	psi	
Flow : Break	777	psi	
Tensile Elongation [2]			ASTM D412
Across Flow : Break	> 1000	%	
Flow : Break	> 1000	%	
Tear Strength [2]			ASTM D624
Across Flow	78.0	lbf/in	
Flow	79.0	lbf/in	
Compression Set [3] (73°F, 22 hr)	10	%	ASTM D395B
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	35		
Shore A, 5 sec, Injection Molded	33		

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

Monprene® SP-13433

Teknor Apex Company - Thermoplastic Elastomer

Processing Information		
Injection	**Nominal Value**	**Unit**
Rear Temperature	360 to 400	°F
Middle Temperature	360 to 400	°F
Front Temperature	360 to 400	°F
Nozzle Temperature	360 to 400	°F
Processing (Melt) Temp	360 to 400	°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).

Notes

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

[2] Die C, 20 in/min

[3] Type 1