

Monprene® CP-10180 X (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

Message:

The Monprene CP-10100 Series of thermoplastic elastomer compounds are designed specifically for consumer product applications requiring a soft, rubber-like feel. These grades are available from 40 to 90 Shore A and are suitable for injection molding.

General Information			
Features	Low density		
	Good flexibility		
	Good coloring		
	General		
	High hardness		
Uses	Water Sports Equipment		
	Safety equipment		
	Handle		
	Electrical appliances		
	Personal care		
	Furniture		
	Household goods		
	Soft touch application		
	Soft handle		
	Sporting goods		
	Toys		
	Stationery		
	Stationery		
	Consumer goods application field		
	Knob		
	Toothbrush handle		
Appearance	Translucent		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.888	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	11	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	80		ISO 868
Elastomers	Nominal Value	Unit	Test Method

Tensile Stress - Across Flow (100% Strain)	3.24	MPa	ISO 37
Tensile Stress - Across Flow (Break)	14.0	MPa	ISO 37
Tensile Elongation - Across Flow (Break)	840	%	ISO 37
Tear Strength ¹			ISO 34-1
Transverse flow	40	kN/m	ISO 34-1
Flow	50	kN/m	ISO 34-1
Compression Set ² (70°C, 22 hr)	44	%	ISO 815
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary, @ 206/s (200°C)	260	Pa·s	ASTM D3835
Legal statement			

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchaser assumes all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or others. There is no warranty of merchantability and there are no other warranties for the products described. For detailed Product Stewardship information, please contact us. Any product of Teknor Apex, including product names, shall not be used or tested in medical or food contact applications without the prior written acknowledgement of Teknor Apex as to the intended use. Please note that some products may not be available in one or more countries.

Injection	Nominal Value	Unit
Rear Temperature	160 - 177	°C
Middle Temperature	182 - 204	°C
Front Temperature	193 - 216	°C
Nozzle Temperature	182 - 227	°C
Processing (Melt) Temp	182 - 227	°C
Mold Temperature	26.7 - 48.9	°C
Injection Rate	Moderate-Fast	
Back Pressure	0.172 - 0.689	MPa
Screw Speed	50 - 100	rpm
Cushion	3.81 - 12.7	mm

Injection instructions

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

NOTE

- | | |
|----|--|
| 1. | Method B, right-angle specimen (without cut) |
| 2. | Type a |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

