

Monprene® CP-19963 NAT (PRELIMINARY DATA)

Thermoplastic Elastomer
Teknor Apex Company

Message:
Monprene CP-19963 is a high performance thermoplastic elastomer designed for a variety of consumer product applications requiring a soft, rubber-like feel. Monprene CP-19963 is a medium hardness, low density, lubricated, UV stabilized grade that is suitable for injection molding or extrusion.

General Information			
Features	Low Specific Gravity		
	Without Fillers		
	Low density		
	Light stabilization		
	Good UV resistance		
	Workability, good		
	Good adhesion		
	Low liquidity		
	Good chemical resistance		
	Good toughness		
	Lubrication		
	Medium hardness		
Uses	Handle		
	General		
	Rubber substitution		
	Consumer goods application field		
RoHS Compliance	RoHS compliance		
Appearance	Translucent		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.888	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.5	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240

Shore A, 1 second, injection molding	66		ASTM D2240
Shore A, 5 seconds, injection molding	63		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	8.27	MPa	ASTM D412
Tensile Elongation (Break)	700	%	ASTM D412

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	193 - 216	°C
Middle Temperature	193 - 216	°C
Front Temperature	193 - 216	°C
Nozzle Temperature	193 - 216	°C
Processing (Melt) Temp	193 - 216	°C
Mold Temperature	16 - 32	°C
Injection Pressure	1.38 - 5.52	MPa
Injection Rate	Fast	
Back Pressure	0.172 - 0.689	MPa
Screw Speed	50 - 100	rpm
Cushion	3.81 - 25.4	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).

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	182 - 204	°C
Cylinder Zone 2 Temp.	182 - 204	°C
Cylinder Zone 3 Temp.	182 - 204	°C
Cylinder Zone 4 Temp.	182 - 204	°C
Cylinder Zone 5 Temp.	182 - 204	°C
Die Temperature	182 - 204	°C

Extrusion instructions

Screw Speed: 30 to 100 rpm

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

