

Monprene® PC-13940 XRD1 (PRELIMINARY DATA)

Thermoplastic Elastomer
Teknor Apex Company

Message:
Monprene PC-13940 XRD1 is a high performance thermoplastic elastomer, available in NAT and colors, designed for a variety of personal care consumer product applications requiring a soft, rubber-like feel, including toothbrush articles. Monprene PC-13940 XRD1 is a low hardness, medium density, UV stabilized grade that complies with various US FDA and European regulations and directives for food contact and is suitable for injection molding.

General Information	
Features	UV Stabilized
	Workability, good
	Good coloring
	Good adhesion
	Lubrication
	Compliance of Food Exposure
	Fill
	Hardness, low
	Medium density
Uses	Cosmetic Packaging
	Handle
	Kitchen utensils
	Washer
	Non-specific food applications
	Cover
	Food packaging
	Food service sector
	Food container
	Shell
	Toys
	Rubber substitution
	Consumer goods application field
	Toothbrush handle
Agency Ratings	FDA Food Exposure, Not Rated
	European food contact, not rated
RoHS Compliance	RoHS compliance

Appearance	Opacity		
	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	40		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
100% strain	1.00	MPa	ISO 37
300% strain	1.60	MPa	ISO 37
Tensile Strength (Break)	7.30	MPa	ISO 37
Tensile Elongation (Break)	900	%	ISO 37
Compression Set ¹			ISO 815
23°C, 22 hr	21	%	ISO 815
70°C, 22 hr	39	%	ISO 815
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec ⁻¹)	109	Pa · s	ISO 11443
Legal statement			
<p>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.</p>			
Injection	Nominal Value	Unit	
Rear Temperature	120 - 160	°C	
Middle Temperature	160 - 230	°C	
Front Temperature	180 - 230	°C	
Nozzle Temperature	180 - 230	°C	
Processing (Melt) Temp	180 - 230	°C	
Mold Temperature	15 - 50	°C	
Injection Rate	Fast		
Back Pressure	0.500 - 1.50	MPa	
Screw Speed	50 - 100	rpm	
Cushion	3.00 - 20.0	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		

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

