

Monprene® SP-16920 XRD2 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

General Information

Product Description

Monprene SP-16920 XRD2 is a general purpose thermoplastic elastomer designed for a variety of consumer product applications requiring a soft, rubber-like feel. Monprene SP-16920 XRD2 is a low hardness, low density grade which exhibits good toughness. This grade is suitable for injection molding.

General

Material Status	• Preliminary Data
Availability	• Asia Pacific
Features	<ul style="list-style-type: none"> • Chemical Resistant • Good Colorability • Good Flexibility • Good Moldability • Good Toughness • High Elongation • Low Density • Low Hardness • Resilient • Soft
Uses	<ul style="list-style-type: none"> • Consumer Applications • General Purpose • Handles • Knobs • Safety Equipment • Seals • Soft Touch Applications
RoHS Compliance	• RoHS Compliant
Appearance	<ul style="list-style-type: none"> • Natural Color • Translucent
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

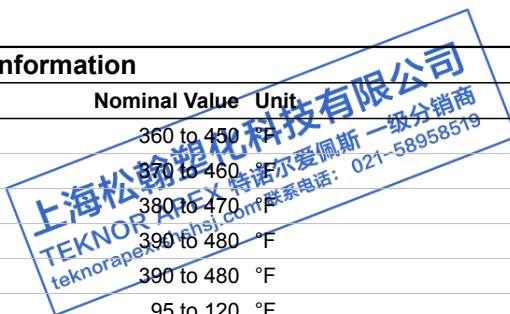
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.882		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	15	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	263	psi	ASTM D412
Tensile Elongation (Break)	> 600	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	20		
Shore A, 5 sec, Injection Molded	19		

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.

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	360 to 450	°F
Middle Temperature	370 to 460	°F
Front Temperature	380 to 470	°F
Nozzle Temperature	390 to 480	°F
Processing (Melt) Temp	390 to 480	°F
Mold Temperature	95 to 120	°F
Injection Pressure	200 to 800	psi



Revision Date: 8/4/2016

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Injection	Nominal Value	Unit
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.

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