



Monprene® CP-22335 XRD2 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Monprene CP-22335 XRD2, 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 CP-22335 XRD2 is a low density, low hardness, RoHS compliant grade that is suitable for extrusion, injection molding and cast film.

General

Material Status	• Preliminary Data		
Availability	• North America		
Features	• Chemical Resistant	• Good Toughness	
	• Excellent Printability	• Halogen Free	• Lubricated
	• Good Adhesion	• High Elasticity	• Outstanding Surface Finish
	• Good Colorability	• Low Density	• Resilient
	• Good Flexibility	• Low Flow	• Wear Resistant
	• Good Processability	• Low Hardness	• Without Fillers
	• Good Stretchability	• Low Specific Gravity	
Uses	• Cast Film	• Hygiene	• Sporting Goods
	• Consumer Applications	• Rubber Replacement	• Tubing
	• Film	• Sheet	
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	• Translucent
Forms	• Pellets		
Processing Method	• Cast Film	• Extrusion	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.902		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.5	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ² (100% Strain)	54.1	psi	ASTM D412
Tensile Strength ² (Break)	920	psi	ASTM D412
Tensile Elongation ² (Break)	650	%	ASTM D412
Tear Strength ²	203	lbf/in	ASTM D624
Tear Strength	203	lbf/in	ISO 34-1
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	38		
Shore A, 5 sec, Injection Molded	38		

Monprene® CP-22335 XRD2 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	375 to 410	°F
Middle Temperature	400 to 420	°F
Front Temperature	400 to 440	°F
Nozzle Temperature	420 to 440	°F
Processing (Melt) Temp	400 to 440	°F
Mold Temperature	80 to 120	°F
Injection Rate	Moderate-Fast	
Screw Speed	50 to 100	rpm
Cushion	0.150 to 0.500	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).

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	380 to 440	°F
Cylinder Zone 2 Temp.	380 to 440	°F
Cylinder Zone 3 Temp.	380 to 440	°F
Cylinder Zone 4 Temp.	380 to 440	°F
Cylinder Zone 5 Temp.	380 to 440	°F
Die Temperature	380 to 440	°F

Extrusion Notes

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

Screw Speed: 30 to 100 rpm

Notes

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

² Die C, 20 in/min