Monprene® CP-23170 XRD1 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Wednesday, April 1, 2026

General Information

Product Description

The Monprene CP-23100 series of thermoplastic elastomer compounds, available in NAT or colors, from 40 to 90 Shore A, are specifically designed for consumer product applications requiring a soft, rubber-like feel. Monprene CP-23170 XRD 1 is a low density, medium hardness, unfilled grade that is suitable for extrusion.

General			
Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Adhesion • Good Colorability • Good Processability • Good Toughness	• Low Density • Low Flow • Low Specific Gravity • Lubricated	• Medium Hardness • Slip • Without Fillers
Uses	• Consumer Applications • Cosmetic Packaging	• Household Goods • Rubber Replacement	• Sheet • Tubing
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	• Translucent
Forms	• Pellets		
Processing Method	• Extrusion		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.886	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	5.0	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ISO 37
Across Flow : 100% Strain	418	psi	
Flow : 100% Strain	719	psi	
Tensile Stress [2]			ISO 37
Across Flow : Break	1520	psi	
Flow : Break	899	psi	
Tensile Elongation [2]			ISO 37
Across Flow : Break	800	%	
Flow : Break	180	%	
Compression Set [3]			ISO 815
73°F, 22 hr	27	%	
158°F, 22 hr	44	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness			ISO 868
Shore A, 1 sec, Injection Molded	73		
Shore A, 5 sec, Injection Molded	70		

Revision Date: 5/29/2024

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Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	300 to 320	°F
Cylinder Zone 2 Temp.	320 to 400	°F
Cylinder Zone 3 Temp.	340 to 420	°F
Cylinder Zone 4 Temp.	360 to 440	°F
Cylinder Zone 5 Temp.	360 to 441	°F
Die Temperature	360 to 440	°F

Extrusion Notes

Screw Speed: 30 to 100 rpm

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

Notes

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

[2] Type 1, 20 in/min

[3] Type A

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