

Monprene® PC-913244 NAT XRD1 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

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Product Description

Monprene PC-913244 NAT XRD1 is a high performance thermoplastic elastomer designed for a variety of consumer product applications requiring a soft, rubber-like feel, including toothbrush handles. Monprene PC-913244 NAT XRD1 is a low hardness, high density, RoHS compliant grade suitable for injection molding.

General			
Material Status	Preliminary Data		
Availability	 Africa & Middle East 	• Europe	North America
, wandbinty	 Asia Pacific 	 Latin America 	
	Closures	Kitchenware	 Sporting Goods
Llaca	 Consumer Applications 	 Medical/Healthcare Application 	ations • Toothbrush Handles
Uses	 Gaskets 	 Packaging 	 Tubing
	 Handles 	 Safety Equipment 	 Writing Instruments
RoHS Compliance	 RoHS Compliant 		
Appearance	 Colors Available 	 Opaque 	
Forms	• Pellets		
Processing Method	Injection Molding		

ASTM & ISO Properties ¹			
Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.10		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	55	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	435	psi	ASTM D412
Tensile Elongation (Break)	500	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec	45		
Shore A, 5 sec	44		

Processing Information		
Injection	Nominal Value	Unit
Rear Temperature	248 to 302	°F
Middle Temperature	302 to 446	°F
Front Temperature	356 to 446	°F
Nozzle Temperature	356 to 446	°F
Processing (Melt) Temp	356 to 446	°F
Mold Temperature	50 to 122	°F
Injection Pressure	200 to 800	psi
Injection Rate	Fast	

njection	Nominal Value Unit
Screw Speed	50 to 100 rpm
Cushion	0.150 to 1.00 in

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.