



Monprene® OM-10360 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Monprene OM-10360 is a specialty thermoplastic elastomer, designed for overmolding and co-extrusion applications like grips and anti-skid parts for consumer and industrial products. Monprene OM-10360 is a medium hardness, low density, UV resistant grade that exhibits excellent adhesion to PC, ABS, & HIPS.

General

Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Adhesion • Good Colorability • Good Moldability • High Flow	• Low Density • Low Specific Gravity • Medium Hardness • Resilient	• Slip • UV Resistant
Uses	• Appliances • Bonding • Cell Phones • Dental Applications	• Flexible Grips • Handles • Knobs • Overmolding	• Power/Other Tools • Sporting Goods • Toothbrush Handles • Writing Instruments
RoHS Compliance	• RoHS Compliant		
Appearance	• Opaque		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.960		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	900	psi	ASTM D412
Tensile Elongation (Break)	650	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 1 sec)	57		ASTM D2240
Additional Information	Nominal Value	Unit	
Adhesion to ABS			
Adhesion to HIPS			
Adhesion to PS			

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	150	°F
Drying Time	2.0 to 4.0	hr

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Injection	Nominal Value	Unit
Rear Temperature	260 to 300	°F
Middle Temperature	280 to 320	°F
Front Temperature	320 to 360	°F
Nozzle Temperature	350 to 380	°F
Processing (Melt) Temp	350 to 380	°F
Mold Temperature	75 to 140	°F
Injection Pressure	200 to 1000	psi
Injection Rate	Fast	
Back Pressure	25.0 to 125	psi
Screw Speed	50 to 120	rpm
Cushion	0.150 to 1.00	in

Notes

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