

# Monprene® OM-10140

Thermoplastic Elastomer

Teknor Apex Company

## Message:

Monprene® OM-10140 is a Thermoplastic Elastomer (TPE) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Typical applications include:

- Handles
- Engineering/Industrial Parts
- Adhesives/Tapes
- Appliances
- Business/Office Goods

General Information			
Uses	Appliances		
	Bonding		
	Cell Phones		
	Dental Applications		
	Flexible Grips		
	Handles		
	Knobs		
	Overmolding		
	Power/Other Tools		
	Sporting Goods		
	Toothbrush Handles		
	Writing Instruments		
Appearance	Opaque		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.908	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	100	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.5	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	40		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	3.45	MPa	ASTM D412
Tensile Elongation (Break)	400	%	ASTM D412
Additional Information	Nominal Value		
Adhesion to Nylon			
Injection	Nominal Value	Unit	

Drying Temperature	65.6	°C
Drying Time	2.0 to 4.0	hr
Rear Temperature	204 to 232	°C
Middle Temperature	210 to 232	°C
Front Temperature	216 to 238	°C
Nozzle Temperature	221 to 243	°C
Processing (Melt) Temp	221 to 243	°C
Mold Temperature	23.9 to 60.0	°C
Injection Pressure	1.38 to 6.89	MPa
Injection Rate	Fast	
Back Pressure	0.172 to 0.862	MPa
Screw Speed	50 to 120	rpm
Cushion	3.81 to 25.4	mm

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#### Recommended distributors for this material

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