

# Monprene® OM-10455

Thermoplastic Elastomer

Teknor Apex Company

Message:

Monprene® OM-10455 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	0.948	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	1.8	%	
Across Flow	1.7	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	46		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	4.31	MPa	ASTM D412
Tensile Strength (Break)	6.55	MPa	ASTM D412
Tensile Elongation (Break)	700	%	ASTM D412

Additional Information	Nominal Value	
Adhesion to ABS		
Adhesion to HIPS		
Adhesion to PS		
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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