

# Monprene® OM-12265-01 (PRELIMINARY DATA)

Thermoplastic Elastomer  
Teknor Apex Company

**Message:**  
Monprene OM-12265-01 is a specialty thermoplastic elastomer designed for overmolding applications like grips and anti-skid parts for consumer and industrial products. Monprene OM-12265-01 is a medium hardness, low density, UV stabilized grade that exhibits excellent adhesion to PC, ABS, and PC/ABS.

General Information	
Features	Low Specific Gravity
	Low density
	smoothness
	Light stabilization
	Good UV resistance
	Adhesiveness
	Good formability
	Good adhesion
	Medium liquidity
	Lubrication
	Medium hardness
Uses	Handle
	overmolding
	Electrical appliances
	Power/other tools
	Soft handle
	Mobile phone
	Sporting goods
	Stationery
	Rubber substitution
	Knob
	Bonding
RoHS Compliance	RoHS compliance
Appearance	Translucent
	Natural color
Forms	Particle

Processing Method	Multiple injection molding Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.958	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 second, injection molding	68		ASTM D2240
Shore A, 5 seconds, injection molding	66		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	6.21	MPa	ASTM D412
Tensile Elongation (Break)	600	%	ASTM D412
Additional Information	Nominal Value		
Adhesion to ABS			
Adhesion to PC			
Adhesion to PC/ABS			
Legal statement			

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Injection	Nominal Value	Unit
Drying Temperature	60	°C
Drying Time	2.0 - 4.0	hr
Rear Temperature	188 - 216	°C
Middle Temperature	188 - 216	°C
Front Temperature	188 - 216	°C
Nozzle Temperature	188 - 216	°C
Processing (Melt) Temp	188 - 216	°C
Mold Temperature	16 - 32	°C
Injection Pressure	1.38 - 5.52	MPa
Back Pressure	0.172 - 0.862	MPa
Screw Speed	50 - 100	rpm
Cushion	3.81 - 25.4	mm
Injection instructions		

Moisture can degrade the material. Drying is suggested. This can be accomplished by placing the material in a desiccant dryer for 2 to 4 hours at 140°F.

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