

Monprene® OM-10240-01

Thermoplastic Elastomer

Teknor Apex Company

Message:

Monprene® OM-10240-01 is a thermoplastic elastomer (TPE) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is injection molding.

Monprene® The main features of the OM-10240-01 are:

- low hardness
- Strong adhesion
- high liquidity
- daylight resistance

Typical application areas include:

- Handle
- engineering/industrial accessories
- Electrical/electronic applications
- electrical appliances
- Tools

General Information	
Features	Low Specific Gravity
	Sunlight Resistant
	Low density
	smoothness
	Light stabilization
	Adhesiveness
	High liquidity
	Hardness, low
Uses	Handle
	overmolding
	Electrical appliances
	Power/other tools
	Soft handle
	Mobile phone
	Sporting goods
	Stationery
	Knob
	Dental application field
Appearance	Opacity
	Particle
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.988	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	23	g/10 min	ASTM D1238
Molding Shrinkage - Flow	2.5	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	40		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	1.38	MPa	ASTM D412
300% strain	2.76	MPa	ASTM D412
Tensile Strength (Break)	4.48	MPa	ASTM D412
Tensile Elongation (Break)	500	%	ASTM D412
Compression Set (23°C, 22 hr)	28	%	ASTM D395
Additional Information	Nominal Value		
Adhesion to ABS			
Adhesion to PC			
Adhesion to PC/ABS			
Injection	Nominal Value	Unit	
Drying Temperature	60.0	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	138 - 188	°C	
Middle Temperature	154 - 199	°C	
Front Temperature	154 - 216	°C	
Nozzle Temperature	154 - 221	°C	
Processing (Melt) Temp	166 - 221	°C	
Mold Temperature	10.0 - 48.9	°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			
潮湿会使材料降解.建议进行干燥处理.可以把材料放入除湿干燥机,在140°F的温度下干燥2-4小时.			
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	138 - 149	°C	
Cylinder Zone 2 Temp.	149 - 160	°C	
Cylinder Zone 3 Temp.	160 - 182	°C	
Cylinder Zone 5 Temp.	160 - 182	°C	
Die Temperature	160 - 182	°C	

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