

Monprene® OM-10265-01

Thermoplastic Elastomer

Teknor Apex Company

Message:

Monprene® OM-10265-01 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 characteristics of the OM-10265-01 are: flame retardant/rated flame.

Typical application areas include:

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

General Information			
Uses	Handle		
	overmolding		
	Electrical appliances		
	Power/other tools		
	Soft handle		
	Mobile phone		
	Sporting goods		
	Stationery		
	Knob		
	Dental application field		
	Toothbrush handle		
	Bonding		
Appearance	Opacity		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.968	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A ¹	62		ASTM D2240
Shaw A ²	68		ASTM D2240
Shore A, 5 seconds, 22°C, injection molding ³	65		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength ⁴			ASTM D412

Transverse flow: Fracture	8.27	MPa	ASTM D412
Flow: Fracture	4.96	MPa	ASTM D412
Tensile Elongation			ASTM D412
Flow: Fracture	540	%	ASTM D412
Transverse flow: Fracture ⁵	780	%	ASTM D412
Tear Strength	31.5	kN/m	ASTM D624
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
3.00mm, all colors	HB		UL 94
6.00mm, all colors	HB		UL 94
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	1.0 - 2.0	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 - 32.2	°C	
Injection Pressure	1.38 - 5.52	MPa	
Injection Rate	Fast		
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 1 to 2 hours at140°F.			
NOTE			
1.	Aging 0 hr at 22°C		
2.	Aging 24 hr at 22°C		
3.	Aging 24 hr at 22°C		
4.	510 mm/min		
5.	510 mm/min		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

