

Monprene® OM-16245

Thermoplastic Elastomer

Teknor Apex Company

Message:

Monprene® OM-16245 is a thermoplastic elastomer (TPE) material. This product is available in the Asia-Pacific region and is processed by extrusion or injection molding. Monprene® The main characteristics of the OM-16245 are: flame retardant/rated flame.

Typical application areas include:

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

General Information			
UL YellowCard	E142591-101704058	E142591-101704059	
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	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.996	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	3.2	%	ASTM D955
Transverse flow	2.1	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	45		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method

Tensile Strength (Break)	5.52	MPa	ASTM D412
Tensile Elongation (Break)	500	%	ASTM D412
Compression Set (23°C, 22 hr)	20	%	ASTM D395
Thermal	Nominal Value	Unit	Test Method
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI	50.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.00 to 1.20mm, 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	2.0 - 4.0	hr	
Rear Temperature	138 - 160	°C	
Middle Temperature	182 - 199	°C	
Front Temperature	182 - 199	°C	
Nozzle Temperature	193 - 210	°C	
Processing (Melt) Temp	177 - 199	°C	
Mold Temperature	4.44 - 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			
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.			
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.	171 - 193	°C	
Die Temperature	182 - 204	°C	

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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

