Monprene® OM-10268

Thermoplastic Elastomer

Teknor Apex Company

Message:

Monprene OM-10268 is designed for overmolding applications like grips and anti-skid parts for consumer products. Monprene OM-10268 is an opaque grade that exhibits excellent adhesion to PC, ABS, and PC/ABS.

General Information		
UL YellowCard	E54709-245348	E54709-245349
Features	Sunlight Resistant Without Fillers smoothness Light stabilization Adhesiveness Medium liquidity Medium density Medium hardness UV absorption	
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	0.998	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	10	g/10 min	ASTM D1238

Molding Shrinkage			ASTM D955
Flow	2.5	%	ASTM D955
Transverse flow	3.6	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shaw A	70		ASTM D2240
Shaw A, 5 seconds	68		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ASTM D412
Transverse flow: 100% strain [1]	2.25	MPa	ASTM D412
Flow: 100% strain [2]	2.78	MPa	ASTM D412
Transverse flow: 300% strain [3]	3.73	MPa	ASTM D412
Flow: 300% strain [4]	4.22	MPa	ASTM D412
Tensile Strength [5]			ASTM D412
Transverse flow: Fracture	6.74	MPa	ASTM D412
Flow: Fracture	6.16	MPa	ASTM D412
Tensile Elongation [6]			ASTM D412
Transverse flow: Fracture	570	%	ASTM D412
Flow: Fracture	520	%	ASTM D412
Tear Strength [7]			ASTM D624
Transverse flow	30.5	kN/m	ASTM D624
Flow	30.5	kN/m	ASTM D624
Compression Set [8]			ASTM D395B
23°C, 22 hr	38	%	ASTM D395B
70°C, 22 hr	17	%	ASTM D395B
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)	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 - 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	Moderate-Fast	
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

NOTE	
1.	Mouth die C, 510mm/min
2.	Mouth die C, 510mm/min
3.	C mold, 510mm/min
4.	C mold, 510mm/min
5.	C mold, 510mm/min
6.	Mouth die C, 510mm/min
7.	C mold, 510mm/min
8.	Type 1

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

WECHAT