Monprene® OM-10185

Thermoplastic Elastomer

Teknor Apex Company

Message:

Monprene®OM-10185 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 extrusion or injection molding.
Monprene®The main features of the OM-10185 are:
ROHS certification
Good processability
Strong adhesion
high hardness
Wear-resistant
Typical application areas include:
Handle
engineering/industrial accessories
Electrical/electronic applications
electrical appliances
Tools

General Information	
Features	Low Specific Gravity
	Low density
	smoothness
	Light stabilization
	Workability, good
	Adhesiveness
	Good formability
	Good processing stability
	Good liquidity
	Good color stability
	Good coloring
	Good wear resistance
	Medium liquidity
	Good demoulding performance
	High hardness
Uses	Handle
	overmolding
	Electrical appliances
	Power/other tools
	Soft handle
	Mobile phone
	Sporting goods
	Stationery

	Knob
	Dental application field
	Toothbrush handle
	Bonding
RoHS Compliance	RoHS compliance
Appearance	Opacity
	Available colors
	Natural color
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.938	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 second, injection molding	87		ASTM D2240
Shore A, 5 seconds, injection molding	85		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [1]			ASTM D412
Transverse flow: 100% strain	5.28	MPa	ASTM D412
Flow: 100% strain	8.31	MPa	ASTM D412
Transverse flow: 300% strain	6.79	MPa	ASTM D412
Tensile Strength [2]			ASTM D412
Transverse flow: Fracture	10.2	MPa	ASTM D412
Flow: Fracture	10.2	MPa	ASTM D412
Tensile Elongation [3]			ASTM D412
Transverse flow: Fracture	560	%	ASTM D412
Flow: Fracture	230	%	ASTM D412
Tear Strength [4]			ASTM D624
Transverse flow	63.4	kN/m	ASTM D624
Flow	54.6	kN/m	ASTM D624
Compression Set [5]			ASTM D395B
23°C, 22 hr	22	%	ASTM D395B
70°C, 22 hr	94	%	ASTM D395B
Additional Information	**Nominal Value**		
Adhesion to Nylon			
Legal statement			

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Injection	Nominal Value	Unit
Drying Temperature	60	°C
Drying Time	2.0 - 4.0	hr
Rear Temperature	204 - 238	°C
Middle Temperature	204 - 238	°C
Front Temperature	204 - 238	°C
Nozzle Temperature	204 - 238	°C
Processing (Melt) Temp	204 - 238	°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.

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	193 - 238	°C
Cylinder Zone 2 Temp.	193 - 238	°C
Cylinder Zone 3 Temp.	193 - 238	°C
Cylinder Zone 4 Temp.	193 - 238	°C
Cylinder Zone 5 Temp.	193 - 238	°C
Die Temperature	193 - 238	°C

NOTE	
1.	C mold, 510mm/min
2.	C mold, 510mm/min
3.	C mold, 510mm/min
4.	C mold, 510mm/min
5.	Type 1

Recommended distributors for this material

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