Monprene® OM-10240-01 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Wednesday, April 1, 2026

General Information

Product Description

Monprene OM-10240-01 is a specialty thermoplastic elastomer designed for overmolding and co-extrusion applications like grips and anti-skid parts for consumer and industrial products. Monprene OM-10240-01 is a low hardness, low density, RoHS compliant grade that exhibits excellent adhesion to PC, ABS, and PC/ABS. This grade can be processed by injection molding and extrusion.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Bondability • Good Colorability • Good Flow • Good Mold Release	• Good Moldability • Good Processability • High Flow • Light Stabilized	• Low Density • Low Hardness • Low Specific Gravity • Slip
Uses	• Appliances • Bonding • Cell Phones	• Flexible Grips • Handles • Knobs	• Overmolding • Power/Other Tools • Writing Instruments
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	• Opaque
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.990		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	15	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (100% Strain)	200	psi	ASTM D412
Tensile Stress (300% Strain)	400	psi	ASTM D412
Tensile Strength (Break)	650	psi	ASTM D412
Tensile Elongation (Break)	500	%	ASTM D412
Compression Set (73°F, 22 hr)	28	%	ASTM D395
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	38		
Shore A, 1 sec, Injection Molded [2]	43		
Shore A, 5 sec, Injection Molded [2]	41		
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	-70.6	°F	ASTM D746A
Additional Information	**Nominal Value**	**Unit**	
Adhesion to ABS			
Adhesion to PC			
Adhesion to PC/ABS			

Revision Date: 2/1/2019

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Processing Information

Injection	Nominal Value	Unit
Drying Temperature	140	°F
Drying Time	2.0 to 4.0	hr
Rear Temperature	340 to 380	°F
Middle Temperature	340 to 380	°F
Front Temperature	340 to 380	°F
Nozzle Temperature	340 to 380	°F
Processing (Melt) Temp	340 to 380	°F
Mold Temperature	60 to 90	°F
Injection Pressure	200 to 800	psi
Back Pressure	25.0 to 125	psi
Screw Speed	50 to 100	rpm
Cushion	0.150 to 1.00	in

Injection Notes

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.	320 to 360	°F
Cylinder Zone 2 Temp.	320 to 360	°F
Cylinder Zone 3 Temp.	320 to 360	°F
Cylinder Zone 4 Temp.	320 to 360	°F
Cylinder Zone 5 Temp.	320 to 360	°F
Die Temperature	320 to 360	°F

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] Aged for 48 hr

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