



Monprene® OM-32473

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Monprene OM-32473 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-32473 is a high hardness, low density, RoHS compliant grade that exhibits excellent adhesion to COPE.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Abrasion Resistant • Bondability • Good Adhesion • Good Colorability • Good Flexibility • Good Flow	• Good Impact Resistance • Good Melt Strength • Good Processability • Good Toughness • Halogen Free • High Gloss	• High Hardness • High Tensile Strength • Low Density • UV Stabilized • Without Fillers
Uses	• Bonding • Consumer Applications	• Footwear • Soft Touch Applications	• Sporting Goods
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	• Translucent
Forms	• Pellets		
Processing Method	• Coextrusion	• Extrusion	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.900		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Flow ² (50% Strain)	635	psi	ASTM D412
Tensile Stress - Flow ² (100% Strain)	665	psi	ASTM D412
Tensile Stress ² (300% Strain)	815	psi	ASTM D412
Tensile Strength - Flow ² (Break)	1670	psi	ASTM D412
Tensile Elongation - Flow ² (Break)	750	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	70		
Shore A, 5 sec, Injection Molded	68		

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Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	280 to 320	°F
Cylinder Zone 2 Temp.	300 to 340	°F
Cylinder Zone 3 Temp.	320 to 360	°F
Cylinder Zone 4 Temp.	340 to 380	°F
Cylinder Zone 5 Temp.	360 to 400	°F
Adapter Temperature	360 to 400	°F
Melt Temperature	360 to 400	°F
Die Temperature	380 to 420	°F

Extrusion Notes

For optimal bondability, we suggest pre-drying for 2 to 4 hrs @ 150F (65C)

Notes

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

² Die C, 20 in/min