

SO.F.TER. Polifor? L6 GF/30 30% Glass Fiber Reinforced Polypropylene

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Subcategory: Filled/Reinforced Thermoplastic; Polymer; Polypropylene; Thermoplastic

Key Words: Softer

Material Notes:

Excellent mechanical properties and low creep. Natural and colored PP based compound. U.L. approved for automotive, electrical, appliances, tools, and other industrial parts. These compounds are used mainly in the automotive and household industry to manufacture outer casings and protection guards, in the furniture sector to manufacture chairs, for the production of footwear, and for the production of sport articles such as helmets, ski boots, and roller blades.

Information provided by SO.F.TER. Spa

Physical Properties

	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in?	
		At 23°C; ASTM D1505, ISO 1183	
Water Absorption	0.02 %	0.02 %	
		24 hours; ASTM D570, ISO 62	
Linear Mold Shrinkage		0.002 - 0.004 cm/cm	

Melt Index of Compound

2.5 g/10 min

ASTM D1238, ISO 1133

Tensile Strength, Yield

13100 psi

Elongation at Break

3 %

Flexural Modulus

841 ksi

Izod Impact, Unnotched

1.87 ft-lb/in

Izod Impact, Unnotched Low Temp

1.5 ft-lb/in

Electrical Properties

Min 600 V

Min 600 V
IEC 112

Thermal Properties

Hot Ball Pressure Test

[125 °C](#)
257 °F
IEC 335

Deflection Temperature at 1.8 MPa (264 psi)

[150 °C](#)
302 °F

ASTM D648, ISO 75

Vicat Softening Point

[135 °C](#)
275 °F

Flammability, UL94

49N/50; ASTM D1525, ISO 306

HB
HB

1.6 and 3.2 mm thicknesses

Oxygen Index

[21 %](#)
21 %

Glow Wire Test

ASTM D2863

[650 °C](#)
1200 °F
IEC 695-2-1

Processing Properties

Melt Temperature

220 - 250 °C

Mold Temperature

428 - 482 °F
Cylinder Temperature
50 - 70 °C
122 - 158 °F