

Plastics Group Polifil® GFABS-30 30% Glass-Reinforced Acrylonitrile-Butadiene Styrene (ABS)

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 30% Glass Fiber Filled

Material Notes:

Polifil® GFABS series compounds combine the most desirable properties of both components - allowing for enhanced processability and toughness together with the stiffness of glass. Applications: FirearmsAutomotiveHousehold appliancesStandard processing techniques are applicable. Information provided by The Plastics Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastics-Group-Polifil-GFABS-30-30-Glass-Reinforced-Acrylonitrile-Butadiene-Styrene-ABS.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ASTM D792
Filler Content	30 %	30 %	ASTM D2584
Linear Mold Shrinkage	0.0020 cm/cm @Thickness 1.59 mm	0.0020 in/in @Thickness 0.0625 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength at Break	89.6 MPa	13000 psi	ASTM D638
Elongation at Break	1.0 %	1.0 %	ASTM D638
Tensile Modulus	6.27 GPa	910 ksi	ASTM D638
Flexural Strength	116 MPa	16800 psi	ASTM D790
Flexural Modulus	6.41 GPa	930 ksi	Tangent; ASTM D790
Compressive Strength	103 MPa	15000 psi	ASTM D695
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	At 73°F; ASTM D256
Izod Impact, Unnotched	3.36 J/cm	6.30 ft-lb/in	At 73°F; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	17.0 µm/m-°C @Temperature 20.0 °C	9.44 µin/in-°F @Temperature 68.0 °F	ASTM D696
Maximum Service Temperature, Air	60.0 °C	140 °F	Continuous use; UL 746B
Deflection Temperature at 0.46 MPa (66 psi)	107 °C	225 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	Class 1/16
Oxygen Index	<= 27 %	<= 27 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.4	3.4	ASTM D150
	@Frequency 10000 Hz	@Frequency 10000 Hz	
Dielectric Strength	18.9 kV/mm	480 kV/in	ASTM D149
Dissipation Factor	0.0090	0.0090	ASTM D150
	@Frequency 10000 Hz	@Frequency 10000 Hz	
Arc Resistance	80 sec	80 sec	Dry; ASTM D495

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