

Plastics Group Polifil® GFABS-20 20% Glass-Reinforced Acrylonitrile-Butadiene Styrene (ABS)

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 20% 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-20-20-Glass-Reinforced-Acrylonitrile-Butadiene-Styrene-ABS.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ASTM D792
Filler Content	20 %	20 %	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	107	107	ASTM D785
Tensile Strength at Break	75.8 MPa	11000 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Tensile Modulus	6.21 GPa	900 ksi	ASTM D638
Flexural Strength	107 MPa	15500 psi	ASTM D790
Flexural Modulus	5.52 GPa	800 ksi	Tangent; ASTM D790
Compressive Strength	96.5 MPa	14000 psi	ASTM D695
Izod Impact, Notched	0.641 J/cm	1.20 ft-lb/in	At 73°F; ASTM D256
Izod Impact, Unnotched	3.10 J/cm	5.80 ft-lb/in	At 73°F; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	21.0 µm/m-°C @Temperature 20.0 °C	11.7 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)	104 °C	220 °F	ASTM D648

Thermal Properties (Stress at 1.8 MPa (264 psi))	Metric	English	Comments
Flammability, UL94	HB	HB	Class 1/16
Oxygen Index	<= 27 %	<= 27 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.2 @Frequency 10000 Hz	3.2 @Frequency 10000 Hz	ASTM D150
Dielectric Strength	18.3 kV/mm	465 kV/in	ASTM D149
Dissipation Factor	0.0090 @Frequency 10000 Hz	0.0090 @Frequency 10000 Hz	ASTM D150
Arc Resistance	80 sec	80 sec	Dry; ASTM D495

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China