

## Plastics Group Polifil® GFABS-10 10% Glass-Reinforced Acrylonitrile-Butadiene Styrene (ABS)

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 10% 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: Firearms Automotive Household appliances Standard 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-10-10-Glass-Reinforced-Acrylonitrile-Butadiene-Styrene-ABS.php](http://www.lookpolymers.com/polymer_Plastics-Group-Polifil-GFABS-10-10-Glass-Reinforced-Acrylonitrile-Butadiene-Styrene-ABS.php)

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in <sup>3</sup>	ASTM D792
Filler Content	10 %	10 %	ASTM D2584
Linear Mold Shrinkage	0.0030 cm/cm @Thickness 1.59 mm	0.0030 in/in @Thickness 0.0625 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength at Break	65.5 MPa	9500 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Tensile Modulus	4.62 GPa	670 ksi	ASTM D638
Flexural Strength	102 MPa	14800 psi	ASTM D790
Flexural Modulus	4.14 GPa	600 ksi	Tangent; ASTM D790
Compressive Strength	82.7 MPa	12000 psi	ASTM D695
Izod Impact, Notched	0.641 J/cm	1.20 ft-lb/in	At 73°F; ASTM D256
Izod Impact, Unnotched	2.99 J/cm	5.60 ft-lb/in	At 73°F; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	23.0 µm/m-°C @Temperature 20.0 °C	12.8 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)	98.9 °C	210 °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	3.0 @Frequency 10000 Hz	3.0 @Frequency 10000 Hz	ASTM D150
Dielectric Strength	17.7 kV/mm	450 kV/in	ASTM D149
Dissipation Factor	0.0080 @Frequency 10000 Hz	0.0080 @Frequency 10000 Hz	ASTM D150
Arc Resistance	80 sec	80 sec	Dry; ASTM D495

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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