Owens Corning Glass Fiber Reinforced Acrylonitrile Butadiene Styrene (ABS), 20 wt.% glass

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 20% Glass Fiber Filled

Material Notes:

ABS is highly resistant to weak acids and alkalis, and provides good resistance to most organic solvents. It is attacked by sulfuric and nitric acids, and is soluble in esters, ketones and ethylene dichloride. Acetal is highly resistant to strong alkalis. Most organic solvents do not seriously alter its properties (test before use). It is not recommended for use in strong acids. Data provided by the manufacturer, Owens Corning.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Owens-Corning-Glass-Fiber-Reinforced-Acrylonitrile-Butadiene-Styrene-ABS-20-wt-glass.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in³	ASTM D792
Water Absorption	0.30 %	0.30 %	24 hrs.; ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	107	107	ASTM D785
Tensile Strength, Ultimate	76.0 MPa	11000 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Modulus of Elasticity	6.00 GPa	870 ksi	ASTM D638
Flexural Strength	107 MPa	15500 psi	ASTM D790
Flexural Modulus	6.00 GPa	870 ksi	ASTM D790
Compressive Strength	97.0 MPa	14100 psi	ASTM D695
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	3.2 @Frequency 60 Hz	3.2 @Frequency 60 Hz	ASTM D150

Electrical Properties	Metric	English	Comments
Arc Resistance	80 sec	80 sec	ASTM D495

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