

Overview of materials for ABS/Polyester Alloy + GF

Category : Polymer , Thermoplastic , ABS Polymer , ABS/Polyester Alloy + GF , Polyester, TP

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "ABS/Polyester Alloy + GF". Each property range of values reported is minimum and maximum values of appropriate MatWeb entries. The comments report the average value, and number of data points used to calculate the average. The values are not necessarily typical of any specific grade, especially less common values and those that can be most affected by additives or processing methods.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Overview-of-materials-for-ABSPolyester-Alloy-GF.php

Physical Properties	Metric	English	Comments
Density	1.15 - 1.61 g/cc	0.0415 - 0.0582 lb/in ³	Average value: 1.42 g/cc Grade Count:27
Water Absorption	0.0800 - 0.150 %	0.0800 - 0.150 %	Average value: 0.121 % Grade Count:9
Linear Mold Shrinkage	0.00200 - 0.0110 cm/cm	0.00200 - 0.0110 in/in	Average value: 0.00463 cm/cm Grade Count:23

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110 - 115	110 - 115	Average value: 113 Grade Count:4
Tensile Strength, Ultimate	50.0 - 123 MPa	7250 - 17900 psi	Average value: 91.5 MPa Grade Count:11
Tensile Strength, Yield	67.6 - 141 MPa	9800 - 20500 psi	Average value: 98.2 MPa Grade Count:17
Elongation at Break	1.20 - 4.00 %	1.20 - 4.00 %	Average value: 2.68 % Grade Count:25
Modulus of Elasticity	3.10 - 9.00 GPa	450 - 1310 ksi	Average value: 6.38 GPa Grade Count:4
Flexural Yield Strength	97.9 - 193 MPa	14200 - 28000 psi	Average value: 139 MPa Grade Count:24
Flexural Modulus	4.22 - 12.1 GPa	612 - 1760 ksi	Average value: 7.10 GPa Grade Count:24
Izod Impact, Notched	0.374 - 1.01 J/cm	0.700 - 1.90 ft-lb/in	Average value: 0.676 J/cm Grade Count:24
Izod Impact, Unnotched	4.00 - 5.07 J/cm	7.50 - 9.50 ft-lb/in	Average value: 4.36 J/cm Grade Count:3
Charpy Impact Unnotched	2.50 - 5.50 J/cm ²	11.9 - 26.2 ft-lb/in ²	Average value: 4.17 J/cm ² Grade Count:3
Charpy Impact, Notched	0.600 - 1.20 J/cm ²	2.86 - 5.71 ft-lb/in ²	Average value: 0.933 J/cm ² Grade Count:3

Thermal Properties	Metric	English	Comments
CTE, linear	28.8 - 54.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	16.0 - 30.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	Average value: 40.3 $\mu\text{m}/\text{m}\cdot\text{°C}$ Grade Count:5
Deflection Temperature at 0.46 MPa (66 psi)	100 - 227 °C	212 - 440 °F	Average value: 200 °C Grade Count:22
Deflection Temperature at 1.8 MPa (264 psi)	90.0 - 208 °C	194 - 407 °F	Average value: 153 °C Grade Count:26
Vicat Softening Point	100 - 147 °C	212 - 297 °F	Average value: 127 °C Grade Count:3
UL RTI, Electrical	140 °C	284 °F	Average value: 140 °C Grade Count:7
UL RTI, Mechanical with Impact	95.0 - 100 °C	203 - 212 °F	Average value: 97.1 °C Grade Count:7
UL RTI, Mechanical without Impact	130 °C	266 °F	Average value: 130 °C Grade Count:7
Flammability, UL94	HB - V-0	HB - V-0	Grade Count:26

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 - 1.00e+17 ohm-cm	1.00e+16 - 1.00e+17 ohm-cm	Average value: 5.50e+16 ohm-cm Grade Count:6
Dielectric Strength	17.7 - 20.5 kV/mm	450 - 520 kV/in	Average value: 18.4 kV/mm Grade Count:4

Processing Properties	Metric	English	Comments
Mold Temperature	70.0 - 100 °C	158 - 212 °F	Average value: 81.7 °C Grade Count:3

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