

Overview of materials for Acrylonitrile Butadiene Styrene (ABS), Glass Bead Filled

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Glass Bead Filled

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "ABS + Glass Blend". 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-Acrylonitrile-Butadiene-Styrene-ABS-Glass-Bead-Filled.php

Physical Properties	Metric	English	Comments
Density	1.06 - 1.38 g/cc	0.0383 - 0.0499 lb/in ³	Average value: 1.18 g/cc Grade Count:14
Filler Content	10.0 - 30.0 %	10.0 - 30.0 %	Average value: 21.3 % Grade Count:4
Water Absorption	0.0500 - 0.250 %	0.0500 - 0.250 %	Average value: 0.165 % Grade Count:11
Linear Mold Shrinkage	0.00300 - 0.00900 cm/cm	0.00300 - 0.00900 in/in	Average value: 0.00517 cm/cm Grade Count:14

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	27.6 - 41.4 MPa	4000 - 6000 psi	Average value: 34.4 MPa Grade Count:11
Tensile Strength, Yield	3.45 - 34.5 MPa	500 - 5000 psi	Average value: 24.1 MPa Grade Count:3
Elongation at Break	1.80 - 10.0 %	1.80 - 10.0 %	Average value: 7.57 % Grade Count:11
Modulus of Elasticity	2.21 - 3.45 GPa	320 - 500 ksi	Average value: 2.81 GPa Grade Count:10
Flexural Yield Strength	27.6 - 68.9 MPa	4000 - 10000 psi	Average value: 52.5 MPa Grade Count:13
Flexural Modulus	2.41 - 3.20 GPa	350 - 464 ksi	Average value: 2.79 GPa Grade Count:14
Izod Impact, Notched	0.350 - 1.60 J/cm	0.656 - 3.00 ft-lb/in	Average value: 0.780 J/cm Grade Count:14
Izod Impact, Unnotched	2.67 - 8.01 J/cm	5.00 - 15.0 ft-lb/in	Average value: 4.50 J/cm Grade Count:7

Thermal Properties	Metric	English	Comments
CTE, linear	41.4 $\mu\text{m}/\text{m}^{\circ}\text{C}$	23.0 $\mu\text{in}/\text{in}^{\circ}\text{F}$	Average value: 41.4 $\mu\text{m}/\text{m}^{\circ}\text{C}$ Grade Count:3

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	95.1 - 102 °C	203 - 215 °F	Average value: 97.6 °C Grade Count: 8
Deflection Temperature at 1.8 MPa (264 psi)	80.0 - 98.9 °C	176 - 210 °F	Average value: 90.3 °C Grade Count: 8
Flammability, UL94	HB - V-0	HB - V-0	Grade Count: 11

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 - 1.00e+17 ohm-cm	1.00e+15 - 1.00e+17 ohm-cm	Average value: 3.06e+16 ohm-cm Grade Count: 7
Dielectric Strength	17.7 - 20.0 kV/mm	450 - 508 kV/in	Average value: 18.3 kV/mm Grade Count: 4

Processing Properties	Metric	English	Comments
Processing Temperature	199 - 232 °C	390 - 450 °F	Average value: 216 °C Grade Count: 4
Melt Temperature	204 - 250 °C	400 - 482 °F	Average value: 227 °C Grade Count: 7
Mold Temperature	50.0 - 85.0 °C	122 - 185 °F	Average value: 70.6 °C Grade Count: 11
Drying Temperature	54.4 - 82.2 °C	130 - 180 °F	Average value: 73.7 °C Grade Count: 7
Moisture Content	0.100 %	0.100 %	Average value: 0.100 % Grade Count: 3
Dew Point	-17.8 °C	0.000 °F	Average value: -17.8 °C Grade Count: 3
Injection Pressure	68.9 - 103 MPa	10000 - 15000 psi	Average value: 86.2 MPa Grade Count: 7

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