

Overview of materials for Acrylonitrile Butadiene Styrene (ABS), 40% Glass Fiber Filled

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 40% Glass Fiber Filled

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Acrylonitrile Butadiene Styrene (ABS), 40% Glass Fiber Filled". Specific grades with glass content between 35% and 44% are included. 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-40-Glass-Fiber-Filled.php

Physical Properties	Metric	English	Comments
Density	1.32 - 1.38 g/cc	0.0477 - 0.0499 lb/in ³	Average value: 1.35 g/cc Grade Count:8
Linear Mold Shrinkage	0.000500 - 0.00200 cm/cm	0.000500 - 0.00200 in/in	Average value: 0.00118 cm/cm Grade Count:7
Melt Flow	0.200 - 10.0 g/10 min	0.200 - 10.0 g/10 min	Average value: 1.86 g/10 min Grade Count:5
Ash	40.0 %	40.0 %	Average value: 40.0 % Grade Count:3

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	88.0 - 105	88.0 - 105	Average value: 99.8 Grade Count:4
Tensile Strength, Ultimate	64.0 - 101 MPa	9280 - 14700 psi	Average value: 86.9 MPa Grade Count:7
Tensile Strength, Yield	65.0 - 107 MPa	9430 - 15500 psi	Average value: 87.8 MPa Grade Count:5
Elongation at Break	1.00 - 4.00 %	1.00 - 4.00 %	Average value: 3.13 % Grade Count:6
Elongation at Yield	2.00 - 3.00 %	2.00 - 3.00 %	Average value: 2.25 % Grade Count:4
Modulus of Elasticity	5.30 - 11.0 GPa	769 - 1600 ksi	Average value: 6.79 GPa Grade Count:5
Flexural Yield Strength	93.0 - 145 MPa	13500 - 21000 psi	Average value: 124 MPa Grade Count:7
Flexural Modulus	6.84 - 10.8 GPa	992 - 1570 ksi	Average value: 9.34 GPa Grade Count:8
Izod Impact, Notched	0.523 - 1.12 J/cm	0.980 - 2.10 ft-lb/in	Average value: 0.733 J/cm Grade Count:8

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	100 - 112 °C	212 - 233 °F	Average value: 104 °C Grade Count:5
Deflection Temperature at 1.8 MPa (264 psi)	92.2 - 106 °C	198 - 223 °F	Average value: 98.1 °C Grade Count:6

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