

Overview of materials for Polybutylene Terephthalate (PBT), Aramid Fiber Filled

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Aramid Fiber Filled

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Polybutylene Terephthalate (PBT), Aramid Fiber Filled". 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-Polybutylene-Terephthalate-PBT-Aramid-Fiber-Filled.php

Physical Properties	Metric	English	Comments
Density	1.32 - 1.46 g/cc	0.0477 - 0.0527 lb/in ³	Average value: 1.38 g/cc Grade Count:7
Filler Content	10.0 - 20.0 %	10.0 - 20.0 %	Average value: 15.0 % Grade Count:4
Water Absorption	0.0700 - 0.200 %	0.0700 - 0.200 %	Average value: 0.117 % Grade Count:3
Linear Mold Shrinkage	0.00700 - 0.0150 cm/cm	0.00700 - 0.0150 in/in	Average value: 0.0121 cm/cm Grade Count:7

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	50.0 - 103 MPa	7250 - 15000 psi	Average value: 69.7 MPa Grade Count:7
Elongation at Break	3.00 - 8.00 %	3.00 - 8.00 %	Average value: 4.75 % Grade Count:6
Modulus of Elasticity	3.45 - 5.86 GPa	500 - 850 ksi	Average value: 4.51 GPa Grade Count:7
Flexural Yield Strength	70.0 - 131 MPa	10200 - 19000 psi	Average value: 105 MPa Grade Count:7
Flexural Modulus	3.10 - 4.55 GPa	450 - 660 ksi	Average value: 3.80 GPa Grade Count:7
Izod Impact, Notched	0.427 - 0.534 J/cm	0.800 - 1.00 ft-lb/in	Average value: 0.498 J/cm Grade Count:6
Izod Impact, Unnotched	4.27 - 4.81 J/cm	8.00 - 9.00 ft-lb/in	Average value: 4.49 J/cm Grade Count:6

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	76.7 - 202 °C	170 - 395 °F	Average value: 139 °C Grade Count:3
Flammability, UL94	HB	HB	Grade Count:6

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 - 1.00e+16 ohm-cm	1.00e+14 - 1.00e+16 ohm-cm	Average value: 2.58e+15 ohm-cm Grade Count:4
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	Average value: 1.00e+14 ohm Grade Count:3

Processing Properties	Metric	English	Comments
Melt Temperature	238 - 280 °C	460 - 536 °F	Average value: 257 °C Grade Count:6
Mold Temperature	60.0 - 120 °C	140 - 248 °F	Average value: 92.9 °C Grade Count:7
Drying Temperature	80.0 - 121 °C	176 - 250 °F	Average value: 115 °C Grade Count:6
Moisture Content	0.0300 %	0.0300 %	Average value: 0.0300 % Grade Count:5
Dew Point	-28.9 °C	-20.0 °F	Average value: -28.9 °C Grade Count:5
Injection Pressure	68.9 - 103 MPa	10000 - 15000 psi	Average value: 86.2 MPa Grade Count:6

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