

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

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

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Acrylonitrile Butadiene Styrene (ABS), PTFE 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-Acrylonitrile-Butadiene-Styrene-ABS-PTFE-Filled.php

Physical Properties	Metric	English	Comments
Density	1.05 - 1.32 g/cc	0.0379 - 0.0477 lb/in ³	Average value: 1.12 g/cc Grade Count:11
Filler Content	5.00 - 20.0 %	5.00 - 20.0 %	Average value: 11.7 % Grade Count:6
Water Absorption	0.190 - 0.300 %	0.190 - 0.300 %	Average value: 0.233 % Grade Count:4
Linear Mold Shrinkage	0.00400 - 0.00700 cm/cm	0.00400 - 0.00700 in/in	Average value: 0.00577 cm/cm Grade Count:11
Melt Flow	4.50 - 8.20 g/10 min	4.50 - 8.20 g/10 min	Average value: 5.73 g/10 min Grade Count:3

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	96.0 - 103	96.0 - 103	Average value: 101 Grade Count:4
Tensile Strength, Ultimate	34.5 - 44.8 MPa	5000 - 6500 psi	Average value: 39.5 MPa Grade Count:10
Tensile Strength, Yield	27.6 - 47.6 MPa	4000 - 6900 psi	Average value: 35.2 MPa Grade Count:3
Elongation at Break	2.00 - 15.0 %	2.00 - 15.0 %	Average value: 9.00 % Grade Count:11
Modulus of Elasticity	2.21 - 2.76 GPa	320 - 400 ksi	Average value: 2.46 GPa Grade Count:8
Flexural Yield Strength	41.0 - 75.8 MPa	5950 - 11000 psi	Average value: 64.8 MPa Grade Count:12
Flexural Modulus	2.07 - 2.76 GPa	300 - 400 ksi	Average value: 2.40 GPa Grade Count:12
Izod Impact, Notched	0.427 - 2.67 J/cm	0.800 - 5.00 ft-lb/in	Average value: 1.25 J/cm Grade Count:12
	0.5339 - 1.01441 J/cm @Temperature -40.0 - 0.000 °C	1.000 - 1.90041 ft-lb/in @Temperature -40.0 - 32.0 °F	Average value: 0.774 J/cm Grade Count:2

Mechanical Properties	Metric	English	Comments
	0.5339 - 1.01441 J/cm @Thickness 3.17 - 3.17 mm	1.000 - 1.90041 ft-lb/in @Thickness 0.125 - 0.125 in	Average value: 0.774 J/cm Grade Count:2
Izod Impact, Unnotched	3.74 - 8.01 J/cm	7.00 - 15.0 ft-lb/in	Average value: 5.49 J/cm Grade Count:7

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	98.9 - 104 °C	210 - 219 °F	Average value: 101 °C Grade Count:5
Deflection Temperature at 1.8 MPa (264 psi)	77.8 - 98.9 °C	172 - 210 °F	Average value: 90.6 °C Grade Count:10
Flammability, UL94	HB - V-0	HB - V-0	Grade Count:7

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 - 1.00e+17 ohm-cm	1.00e+14 - 1.00e+17 ohm-cm	Average value: 2.55e+16 ohm-cm Grade Count:4

Processing Properties	Metric	English	Comments
Melt Temperature	177 - 260 °C	351 - 500 °F	Average value: 221 °C Grade Count:9
Mold Temperature	48.9 - 85.0 °C	120 - 185 °F	Average value: 70.5 °C Grade Count:9
Drying Temperature	60.0 - 93.3 °C	140 - 200 °F	Average value: 81.0 °C Grade Count:9
Moisture Content	0.0100 - 0.100 %	0.0100 - 0.100 %	Average value: 0.0856 % Grade Count:8
Dew Point	-17.8 °C	0.000 °F	Average value: -17.8 °C Grade Count:6
Injection Pressure	68.9 - 103 MPa	10000 - 15000 psi	Average value: 86.2 MPa Grade Count:6

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