

Overview of materials for Diallyl Phthalate (DAP) Molding Compound, Long Glass Fiber Filled

Category : Polymer , Thermoset , Diallyl Phthalate (DAP) , Diallyl Phthalate (DAP) Molding Compound, Long Glass Fiber Filled

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Diallyl Phthalate (DAP) Molding Compound, Long Glass 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-Diallyl-Phthalate-DAP-Molding-Compound-Long-Glass-Fiber-Filled.php

Physical Properties	Metric	English	Comments
Density	1.72 - 1.82 g/cc	0.0621 - 0.0658 lb/in ³	Average value: 1.79 g/cc Grade Count:10
Apparent Bulk Density	0.290 - 0.300 g/cc	0.0105 - 0.0108 lb/in ³	Average value: 0.298 g/cc Grade Count:8
Water Absorption	0.250 - 0.300 %	0.250 - 0.300 %	Average value: 0.264 % Grade Count:8
Linear Mold Shrinkage	0.00100 - 0.00400 cm/cm	0.00100 - 0.00400 in/in	Average value: 0.00250 cm/cm Grade Count:10

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	41.0 - 70.0 MPa	5950 - 10200 psi	Average value: 55.1 MPa Grade Count:10
Flexural Yield Strength	103 - 131 MPa	14900 - 19000 psi	Average value: 107 MPa Grade Count:10
Compressive Yield Strength	140 - 186 MPa	20300 - 27000 psi	Average value: 178 MPa Grade Count:10
Izod Impact, Notched	1.60 - 2.40 J/cm	3.00 - 4.50 ft-lb/in	Average value: 2.25 J/cm Grade Count:10

Thermal Properties	Metric	English	Comments
CTE, linear	15.0 - 24.0 $\mu\text{m/m-}^{\circ}\text{C}$	8.33 - 13.3 $\mu\text{in/in-}^{\circ}\text{F}$	Average value: 22.9 $\mu\text{m/m-}^{\circ}\text{C}$ Grade Count:10
Deflection Temperature at 1.8 MPa (264 psi)	260 $^{\circ}\text{C}$	500 $^{\circ}\text{F}$	Average value: 260 $^{\circ}\text{C}$ Grade Count:10
Flammability, UL94	V-0	V-0	Grade Count:5

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	Average value: 1.00e+17 ohm-cm Grade Count:8

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+17 ohm	1.00e+17 ohm	Average value: 1.00e+17 ohm Grade Count:8
Dielectric Constant	3.50 - 4.40	3.50 - 4.40	Average value: 4.07 Grade Count:10
Dielectric Strength	13.4 - 16.0 kV/mm	340 - 406 kV/in	Average value: 14.9 kV/mm Grade Count:10
Dissipation Factor	0.00900 - 0.0190	0.00900 - 0.0190	Average value: 0.0122 Grade Count:10
Arc Resistance	130 - 180 sec	130 - 180 sec	Average value: 167 sec Grade Count:10

Processing Properties	Metric	English	Comments
Processing Temperature	135 - 165 °C	275 - 329 °F	Average value: 150 °C Grade Count:8

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