

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

Category : Polymer , Thermoset , Diallyl Phthalate (DAP) , Diallyl Phthalate (DAP) Molding Compound, Short 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, Short 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-Short-Glass-Fiber-Filled.php

Physical Properties	Metric	English	Comments
Density	1.64 - 2.10 g/cc	0.0592 - 0.0759 lb/in ³	Average value: 1.85 g/cc Grade Count:35
Apparent Bulk Density	0.270 - 0.900 g/cc	0.00975 - 0.0325 lb/in ³	Average value: 0.684 g/cc Grade Count:29
Water Absorption	0.200 - 0.350 %	0.200 - 0.350 %	Average value: 0.255 % Grade Count:30
Linear Mold Shrinkage	0.00100 - 0.00600 cm/cm	0.00100 - 0.00600 in/in	Average value: 0.00289 cm/cm Grade Count:35

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	35.0 - 117 MPa	5080 - 17000 psi	Average value: 67.1 MPa Grade Count:28
Tensile Strength, Yield	30.0 - 100 MPa	4350 - 14500 psi	Average value: 69.6 MPa Grade Count:5
Modulus of Elasticity	4.00 - 17.0 GPa	580 - 2470 ksi	Average value: 9.55 GPa Grade Count:8
Flexural Yield Strength	60.0 - 180 MPa	8700 - 26100 psi	Average value: 118 MPa Grade Count:35
Flexural Modulus	8.00 - 18.0 GPa	1160 - 2610 ksi	Average value: 13.1 GPa Grade Count:26
Compressive Yield Strength	130 - 200 MPa	18900 - 29000 psi	Average value: 165 MPa Grade Count:34
Izod Impact, Notched	0.270 - 3.50 J/cm	0.506 - 6.56 ft-lb/in	Average value: 0.801 J/cm Grade Count:26
Charpy Impact Unnotched	0.200 - 1.50 J/cm ²	0.952 - 7.14 ft-lb/in ²	Average value: 0.730 J/cm ² Grade Count:9
Charpy Impact, Notched	0.120 - 0.800 J/cm ²	0.571 - 3.81 ft-lb/in ²	Average value: 0.377 J/cm ² Grade Count:8

Thermal Properties	Metric	English	Comments
CTE, linear	12.0 - 55.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	6.67 - 30.6 $\mu\text{in}/\text{in}\cdot\text{°F}$	Average value: 20.4 $\mu\text{m}/\text{m}\cdot\text{°C}$ Grade Count:25
	5.00 - 60.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 50.0 - 100 °C	2.78 - 33.3 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 122 - 212 °F	Average value: 31.3 $\mu\text{m}/\text{m}\cdot\text{°C}$ Grade Count:8
Thermal Conductivity	0.280 - 1.10 W/m-K	1.94 - 7.63 BTU-in/hr-ft ² -°F	Average value: 0.500 W/m-K Grade Count:19
Maximum Service Temperature, Air	130 - 200 °C	266 - 392 °F	Average value: 143 °C Grade Count:12
Deflection Temperature at 1.8 MPa (264 psi)	180 - 288 °C	356 - 550 °F	Average value: 243 °C Grade Count:33
Deflection Temperature at 8.0 MPa	120 - 200 °C	248 - 392 °F	Average value: 165 °C Grade Count:8
UL RTI, Electrical	130 - 170 °C	266 - 338 °F	Average value: 136 °C Grade Count:7
UL RTI, Mechanical with Impact	130 - 170 °C	266 - 338 °F	Average value: 136 °C Grade Count:7
UL RTI, Mechanical without Impact	130 - 180 °C	266 - 356 °F	Average value: 137 °C Grade Count:7
Flammability, UL94	V-1 - V-0	V-1 - V-0	Grade Count:16
Oxygen Index	21.0 - 50.0 %	21.0 - 50.0 %	Average value: 34.6 % Grade Count:16

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: 5.03e+16 ohm-cm Grade Count:16
Surface Resistance	1.00e+14 - 1.00e+17 ohm	1.00e+14 - 1.00e+17 ohm	Average value: 4.74e+16 ohm Grade Count:17
Dielectric Constant	3.30 - 5.50	3.30 - 5.50	Average value: 4.15 Grade Count:34
Dielectric Strength	12.2 - 40.0 kV/mm	310 - 1020 kV/in	Average value: 16.1 kV/mm Grade Count:34
Dissipation Factor	0.00500 - 0.0300	0.00500 - 0.0300	Average value: 0.0148 Grade Count:34
Arc Resistance	130 - 240 sec	130 - 240 sec	Average value: 153 sec Grade Count:28
Comparative Tracking Index	500 - 600 V	500 - 600 V	Average value: 580 V Grade Count:23
Hot Wire Ignition, HWI	7.00 - 120 sec	7.00 - 120 sec	Average value: 85.0 sec Grade Count:4
High Amp Arc Ignition, HAI	14.0 - 120 arcs	14.0 - 120 arcs	Average value: 44.5 arcs Grade Count:4
High Voltage Arc-Tracking Rate, HVTR	0.000 - 10.0 mm/min	0.000 - 0.394 in/min	Average value: 5.00 mm/min Grade Count:4

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Processing Temperature	135 - 180 °C	275 - 356 °F	Average value: 162 °C Grade Count:22

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China