

## Overview of materials for Diallyl Phthalate (DAP), Cast, Mineral Filler

Category : Polymer , Thermoset , Diallyl Phthalate (DAP) , Diallyl Phthalate (DAP), Cast, Mineral Filler

### Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Diallyl Phthalate (DAP), Cast, Mineral Filler". 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-Cast-Mineral-Filler.php](http://www.lookpolymers.com/polymer_Overview-of-materials-for-Diallyl-Phthalate-DAP-Cast-Mineral-Filler.php)

Physical Properties	Metric	English	Comments
Density	1.66 - 1.86 g/cc	0.0600 - 0.0672 lb/in <sup>3</sup>	Average value: 1.77 g/cc Grade Count:12
Apparent Bulk Density	0.600 - 0.860 g/cc	0.0217 - 0.0311 lb/in <sup>3</sup>	Average value: 0.732 g/cc Grade Count:6
Water Absorption	0.250 - 0.650 %	0.250 - 0.650 %	Average value: 0.445 % Grade Count:10
Linear Mold Shrinkage	0.00100 - 0.0100 cm/cm	0.00100 - 0.0100 in/in	Average value: 0.00429 cm/cm Grade Count:12

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	41.0 - 55.2 MPa	5950 - 8010 psi	Average value: 49.6 MPa Grade Count:12
Flexural Yield Strength	76.0 - 110 MPa	11000 - 16000 psi	Average value: 93.0 MPa Grade Count:12
Flexural Modulus	6.90 - 11.7 GPa	1000 - 1700 ksi	Average value: 10.3 GPa Grade Count:8
Compressive Yield Strength	138 - 179 MPa	20000 - 26000 psi	Average value: 153 MPa Grade Count:12
Izod Impact, Notched	0.210 - 0.320 J/cm	0.393 - 0.599 ft-lb/in	Average value: 0.236 J/cm Grade Count:11

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 - 46.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	13.9 - 25.6 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Average value: 34.3 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Grade Count:12
Maximum Service Temperature, Air	130 $^\circ\text{C}$	266 $^\circ\text{F}$	Average value: 130 $^\circ\text{C}$ Grade Count:5
Deflection Temperature at 1.8 MPa (264 psi)	149 - 274 $^\circ\text{C}$	300 - 525 $^\circ\text{F}$	Average value: 192 $^\circ\text{C}$ Grade Count:12
UL RTI, Electrical	130 $^\circ\text{C}$	266 $^\circ\text{F}$	Average value: 130 $^\circ\text{C}$ Grade Count:3
UL RTI, Mechanical with Impact	130 $^\circ\text{C}$	266 $^\circ\text{F}$	Average value: 130 $^\circ\text{C}$ Grade Count:3

Thermal Properties <i>UL RTI, Mechanical without Impact</i>	Metric 130 °C	English 266 °F	Comments Average value: 130 °C Grade Count:3
Flammability, UL94	HB - V-0	HB - V-0	Grade Count:5
Oxygen Index	23.0 - 30.0 %	23.0 - 30.0 %	Average value: 25.7 % Grade Count:6

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:4
Surface Resistance	1.00e+17 ohm	1.00e+17 ohm	Average value: 1.00e+17 ohm Grade Count:4
Dielectric Constant	3.60 - 4.70	3.60 - 4.70	Average value: 4.25 Grade Count:12
Dielectric Strength	14.0 - 17.0 kV/mm	356 - 432 kV/in	Average value: 15.2 kV/mm Grade Count:12
Dissipation Factor	0.0100 - 0.0250	0.0100 - 0.0250	Average value: 0.0168 Grade Count:12
Arc Resistance	135 - 180 sec	135 - 180 sec	Average value: 144 sec Grade Count:12
Comparative Tracking Index	600 V	600 V	Average value: 600 V Grade Count:5

Processing Properties	Metric	English	Comments
Processing Temperature	135 - 180 °C	275 - 356 °F	Average value: 162 °C Grade Count:10

## Contact Songhan Plastic Technology Co.,Ltd.

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