

Overview of materials for Thermoset Polyurethane, Liquid, Quartz Filled

Category : Polymer , Thermoset , Polyurethane, TS , Thermoset Polyurethane, Liquid, Quartz Filled

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Thermoset Polyurethane, Liquid, Quartz 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-Thermoset-Polyurethane-Liquid-Quartz-Filled.php

Physical Properties	Metric	English	Comments
Density	1.69 - 1.80 g/cc	0.0611 - 0.0650 lb/in ³	Average value: 1.75 g/cc Grade Count:3
Water Absorption	0.0500 - 0.0900 %	0.0500 - 0.0900 %	Average value: 0.0667 % Grade Count:3
Water Absorption at Saturation	0.0500 - 0.0900 %	0.0500 - 0.0900 %	Average value: 0.0667 % Grade Count:3

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	75.0 - 88.0 MPa	10900 - 12800 psi	Average value: 82.3 MPa Grade Count:3
Elongation at Break	1.10 - 1.40 %	1.10 - 1.40 %	Average value: 1.27 % Grade Count:3
Modulus of Elasticity	8.00 - 9.10 GPa	1160 - 1320 ksi	Average value: 8.70 GPa Grade Count:3

Thermal Properties	Metric	English	Comments
CTE, linear	34.0 - 42.0 $\mu\text{m/m-}^{\circ}\text{C}$	18.9 - 23.3 $\mu\text{in/in-}^{\circ}\text{F}$	Average value: 38.7 $\mu\text{m/m-}^{\circ}\text{C}$ Grade Count:3
CTE, linear, Transverse to Flow	34.0 - 42.0 $\mu\text{m/m-}^{\circ}\text{C}$	18.9 - 23.3 $\mu\text{in/in-}^{\circ}\text{F}$	Average value: 38.7 $\mu\text{m/m-}^{\circ}\text{C}$ Grade Count:3
Glass Transition Temp, Tg	90.0 - 140 $^{\circ}\text{C}$	194 - 284 $^{\circ}\text{F}$	Average value: 123 $^{\circ}\text{C}$ Grade Count:3
Oxygen Index	29.0 - 51.0 %	29.0 - 51.0 %	Average value: 38.3 % Grade Count:3

Electrical Properties	Metric	English	Comments
Electrical Resistivity	8.00e+14 - 1.00e+15 ohm-cm	8.00e+14 - 1.00e+15 ohm-cm	Average value: 9.33e+14 ohm-cm Grade Count:3
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	Average value: 1.00e+15 ohm Grade Count:3
Dielectric Constant	4.00 - 4.70	4.00 - 4.70	Average value: 4.38 Grade Count:3

Electrical Properties	Metric	English	Comments
Dielectric Strength	29.0 - 34.0 kV/mm	737 - 864 kV/in	Average value: 31.7 kV/mm Grade Count:3
Dissipation Factor	0.0100 - 0.0250	0.0100 - 0.0250	Average value: 0.0145 Grade Count:3
Comparative Tracking Index	600 V	600 V	Average value: 600 V Grade Count:3

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