

Hippe PF WV 304 Wood veneer Reinforced Phenolic Resin - Sheet

Category : Polymer , Thermoset , Phenolic

Material Notes:

Parallel plied. Used in mechanical and electrical applications. Information provided by Hippe.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hippe-PF-WV-304-Wood-veneer-Reinforced-Phenolic-Resin-Sheet.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 - 1.40 g/cc	1.30 - 1.40 g/cc	IEC 1212-2 8.1

Mechanical Properties	Metric	English	Comments
Tensile Strength	>= 120 MPa	>= 17400 psi	IEC 1212-2 5.7
Flexural Strength	>= 170 MPa	>= 24700 psi	Perpendicular to laminations; IEC 1212-2 5.1
Flexural Modulus	>= 18.0 GPa	>= 2610 ksi	IEC 1212-2 5.2
Compressive Strength	>= 80.0 MPa	>= 11600 psi	Perpendicular to laminations; IEC 1212-2 5.3
Shear Strength	>= 15.0 MPa	>= 2180 psi	Parallel to laminations; IEC 1212-2 5.6
Charpy Impact Unnotched	>= 2.50 J/cm ²	>= 11.9 ft-lb/in ²	Parallel to laminations; IEC 1212-2 5.5.2

Electrical Properties	Metric	English	Comments
Insulation Resistance	>= 1.00e+8 ohm	>= 1.00e+8 ohm	After immersion in water; IEC 1212-2 6.3
Dielectric Breakdown	>= 25000 V @Temperature 90.0 °C	>= 25000 V @Temperature 194 °F	In oil, parallel to laminations; IEC 1212-2 6.2
Dissipation Factor	<= 0.10 @Frequency 48.0 - 62.0 Hz	<= 0.10 @Frequency 48.0 - 62.0 Hz	IEC 1212-2 6.2
Comparative Tracking Index	>= 100 V	>= 100 V	IEC 1212-2 6.4

Descriptive Properties	Value	Comments
Thermal Endurance	120 T.I.	IEC 1212-2 7.1

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