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POLYESTER / FIBERGLASS

1030HT

Description

The 1030HT fiberglass reinforced polyester sheet is manufactured under high heat and pressure in matched metal moulds. This laminate provides excellent mechanical and electrical properties for service temperatures up to 428°F. Testing shows that after 2000 hours of exposure at 390°F, the flexural strength is reduced by 10%, and the dielectric strength is reduced by 30% to 240 VPM.



Applications

This material is excellent for use in applications where high temperature property retention products are required, such as dry transformers.

Specifications

Technical Data

Specific Gravity (ASTM D-792)	1.62df
IZOD Impact strength (Notch) (ASTM D-256)	8ft-lb/in
Comp. Strength (psi) (ASTM D-790)	20 000
Flexural Strength (ASTM D-790)	22 000psi
Barcol hardness (ASTM D-2583)	45-55
Dielectric strength (ASTM D-149)	350volts/mil
Arc Resistance (ASTM D-495)	184
Dissipation factor @ 60 Hz (ASTM D-149)	0.05
Dissipation factor @ 1 MHz (ASTM D-149)	0.03

Dielectric constant @ 60 Hz (ASTM D-150)	5.0
Dielectric constant @ 1 MHz (ASTM D-150)	4.3
Flammability rating (UL 94)	94HB
Temperature	220°C (390°F)
Water absorption % - 24hrs (ASTM D-229)	0.337

N.B. The information presented may differ from practice. We recommend conducting tests according to the conditions of use. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products. The data is subject to certain variations without notice.