

ELECTRICAL SHEET

TECHNICAL DATA

PROTECTOLITE™ 1030 HT HIGH TEMPERATURE and high strength electrical grade sheet is manufactured under high heat and pressure in matched metal moulds. This provides a laminate with excellent mechanical and electrical properties for service temperatures of **200°C TO 220°C**. Our testing shows that after 2000 hours exposure at 200C, the flexural strength is reduced 10%, and the dielectric strength is reduced by 30% to 240 vpm, making it excellent for use in applications where high temperature property retention products are required, such as dry transformers.

PROPERTIES	VALUES	METHOD
FLAMMABILITY	94HB	UL94
BARCOL HARDNESS	45-55	ASTM D2583
WATER ABSORPTION (A.R.)	0.337%	ASTM D229
(2000 @ 200°C)	4.16%	
FLEXURAL STRENGTH (A.R.)	22,000 psi	ASTM D790
(2000 @ 200C)	20,000 psi	
ARC RESISTANCE	184	ASTM D495
DIELECTRIC CONSTANT		
@ 60Hz	5.0	ASTM D150
@ 1 MHz	4.3	
DIELECTRIC STRENGTH	350 VPM	ASTM D149
(2000 @ 200°C)	240 VPM	
DISSIPATION FACTOR	0.05	ASTM D150
@ 60Hz		
@ 1 MHz	0.03	
IZOD IMPACT STRENGTH	8 ft-lb/in.	ASTM D256
Notched		
SPECIFIC GRAVITY	1.62	ASTM D792

STANDARD COLOURS:
 NATURAL

STANDARD SIZES:
 -36"x72", 37"x73" and 48"x96" sheets, 1/32" - 6", NEMA & plus NEMA Tolerances. All sheets are HOMOGENEOUS in thickness, NO BONDING or JOINTS

CUSTOM SIZES:
 -Up to 50"x 96", 1/32" up to 6", NEMA & plus NEMA Tolerances.
 Metric thicknesses are also available.

DELIVERY:
 -Stock for standard sheets, custom sizes as required.

The property values shown are based upon tests on 1/8" thick laminates and believed to be reliable. However, no liability is assumed resulting from their use. We suggest that the user perform tests in order to establish the material's suitability for the specific application.