



DEMS

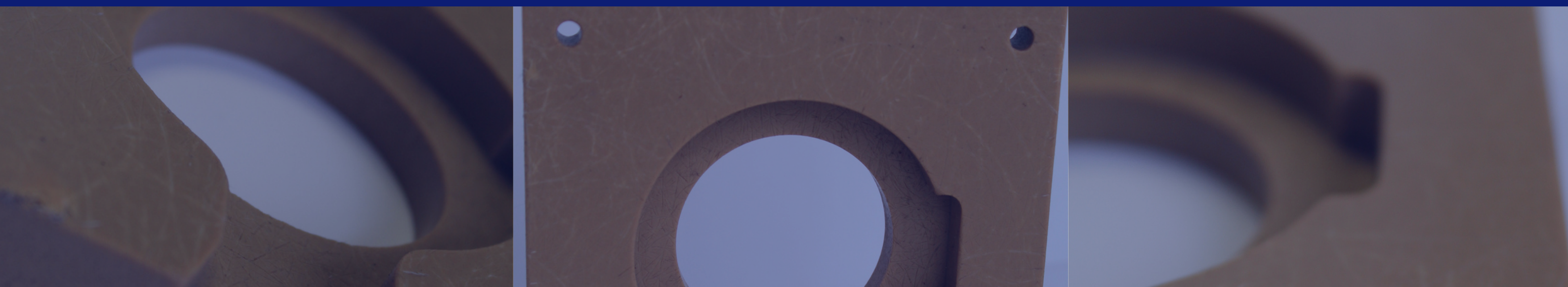
Polyester Glass matt

SG 200

SG200 is a high temperature polyester laminate that shows excellent retention of electrical properties and mechanical properties at elevated temperature ranges.



- NEMA L1 GP01
- Colour : Cream.
- Thermal classification : 210°C (H)
- Edgewise parallel : 50 KV
- Applications : High voltage transformers, D.C. motors and elsewhere when materials with high thermal indices are required.

**DEMS**

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DATA SHEET SG200			
PROPERTY	TEST METHOD	UNIT	VALUE
ELECTRICAL PROPERTIES			
ARC RESISTANCE	ASTM D 495	sec	120
ELECTRICAL STRENGTH IN OIL	IEC 243-1		
FLATWISE PERPINDICULAR (3MM)		KV/mm	19.7
EDGEWISE PARALLEL		KV	50
PERMITTIVITY AT 48-62 Hz	IEC 250		4.6
DISSIPATION FACTOR AT 48-62 Hz	IEC 250		0.037
INSULATION RESISTANCE	IEC 167	ohm	1.45 x 10 ¹⁴
MECHANICAL PROPERTIES			
TENSILE STRENGTH	ISO 527	MPa	85
FLEXURAL STRENGTH	ISO 178	MPa	130
SHEAR STRENGTH	EN60893-2	MPa	
IMPACT STRENGTH	ISO 179	KJ/m ²	
COMPRESSIVE STRENGTH	ISO 604	MPa	200
MODULUS STRENGTH	ISO 178	MPa	
FIRE BEHAVIOR			
FLAME RESISTANCE	UL 94		HB
SMOKE INDEX	ASTM E 662		
PHYSICAL STRENGTH			
SPECIFIC GRAVITY	ISO 1183	g/cm ³	1.7
WATER ABSORBTION	ISO 62/1	mg	20
THERMAL CLASSIFICATION	IEC 216	°C	210(H)