



DEMS

Polyester Glass Mat

GPO3

Polyester Glass Mat for excellent electrical & mechanical applications.

Polyester Glass Mat is Flame retardant with excellent arc & track resistance.



- NEMA LI-1 GPO-3
- Colour: Red/Pink
- Class F electrical insulation.
- UL Recognized.
- Max Working temperature: 155°C
- Applications : Busbar support, arc chute, LV&HC circuit breakers.



DEMS

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DEMS

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POLYESTER GLASS MAT GPO3

<u>MECHANICAL PROPERTIES</u>	METHOD	UNIT	
FLEXURAL STRENGTH	ASTM D 790	MPa	210
FLEXURAL STRENGTH at 130°C	ASTM D 790	MPa	120
TENSILE STRENGTH	ASTM D 638	MPa	90
TENSILE MODULUS	ASTM D 638	MPa	8×10^3
SHEAR STRENGTH	ASTM D 732	MPa	80
COMPRESSIVE STRENGTH	ASTM D 695	MPa	220
<u>ELECTRICAL PROPERTIES</u>			
ELECTRIC STRENGTH -PERPENDICULAR S/T IN AIR	ASTM D 149	kV/mm	18
ELECTRIC STRENGTH -PERPENDICULAR S/T IN OIL	ASTM D 149	kV/mm	23
ELECTRIC STRENGTH -PARALLEL S/S IN OIL	ASTM D 149	kV	47
ARC RESISTANCE	ASTM D 495	sec	180
IEC TRACKING RESISTANCE (CTI)	UL 746A	V	600
DISSIPATION FACTOR ,60 Hz	ASTM D 150		0.013
DISSIPATION FACTOR ,1 MHz	ASTM D 150		0.010
INSULATION RESISTANCE	ASTM D 257	ohm x 10^{12}	3.1
<u>PHYSICAL PROPERTIES</u>			
GRAVITY	ASTM D 792		1.85
WATER ABSORPTION	ASTM D 570	%by wt.	0.4
COEFFICEIENT OF THERMAL EXPANSION	ASTM D 696	$10^{-6}/K$	20
THERMAL CONDUCTIVITY	ASTM C 177	W/m.k	0.274
MAX WORKING TEMPERTURE		TI/C	155
<u>FIRE PROPERTIES</u>			
UL SUBJECT 94	UL 94	2.4mm	V-0
OXYGEN INDEX	ASTM D 2863	%O ₂	35