

Flexible Insulation Varnished Glass Cloth

GENERAL

Varnished Glass Cloth a polyester coated closed weave glass fabric with 180°C. thermal capability it has good flexibility, with exceptionally high tensile and tear strength.

APPLICATIONS

Varnished Glass Cloth is recommended for a wide variety of uses in the motor and transformer industry including phase separators, slot liners, barrier and layer insulation, bus bar, and coil wrapping, to name but a few.

THERMAL PROPERTIES

Thermal aging tests conducted in accordance with both A.S.T.M. D-902 (Volatility Index of Coated Woven Glass Cloth) and A.S.T.M. D-1 830 (Curved Electrode Test) have proven that the cloth has a thermal endurance in excess of 50,000 hours at 180°C.

PHYSICAL & ELECTRICAL PROPERTIES

	Product Code					
	VGC 05	VGC 07	VGC 10	VGC 10-1	VGC 15	VGC 25
Finished thickness [mm]	0.127	0.178	0.254	0.254	0.38	0.635
Approx. Weight [lbs/sq.yd]	0.174	0.174	0.245	0.342	0.397	0.516
Tensile Strength [PIW]	Warp	200	200	200	400	500
	Fill	140	140	160	280	---
Elmendorf tear strength [g]	Warp	400	400	400	1600	1600+
	Fill	250	300	300	800	---
Gurley Stiffness [mg]	Warp	245	165	220	515	4500
	Fill	125	105	110	345	---
Dielectric strength [V/m]						
6.4mm Short time	1600	1700	1700	1300	1100	800
Thermal rating [°C] ¹	180	180	180	180	180	180

¹A.S.T.M D-1830