



Leading Manufacturer of
ELECTRICAL INSULATION MATERIALS

九江鑫星绝缘材料有限公司
JIUJIANG XINXING INSULATION MATERIAL CO.,LTD

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3240 ,G-10,G-11,FR-4,FR-5,EPGC308,ESD G10/FR4,EPGM SERIES,UPGM SERIES

TECHNICAL DATA SHEET

FR-3250

Item:	FR-3250 Glass Epoxy Laminate			
Description:	3250F materials are the chemical treatment electrical purposed alkali-free fiberglass reinforced laminates,bonded with high TG epoxy resin.It has high mechanical strength under normal temperature , still has strong mechanical strength , good electrical properties under dry and wet environment, can be used in damp environment and transformer oil.It belongs to class H heat resistance insulating material.FR-3250 is similar to 3250/EPGC308,but with low flammability (UL94 V-0)			
Standards:	GB/T 1303.2.2009			
Application:	Suitable for class 180 (H) traction motors, large motors as slot wedges and high-end electrical appliances as heat resistant insulation results.			
Availability:	Laminate Sheets:	Thickness	English Units(in) 0.008"-4.0"	SI unites(mm/cm) 0.2-101.6(mm)
		Sheet Size	40" x 48"	102cm x 122cm
			48" x 80"	122cm x 204cm
	Fabricated parts:	Xinxing Insulation custom fabricates insulation materials to the exact specifications and drawings of our customers		

TYPICAL PROPERTIES OF FR-3250 CLASS SHEET

Key Characteristic	Units	IEC Requirement	Typical Values	Test Methods
PHYSICAL				
Standard color	--	--	Light green, Dark brown ¹	
Density	g/cm ³	1.8-2.0	1.97	GB/T 1303.2.2009
Water Absorption,24 hrs 3mm	mg	22 max	12	GB/T 1303.2.2009
MECHANICAL				
Flexural strength perpendicular to laminations (under normal condition)	MPa	340 min	614	GB/T 1303.2.2009
Flexural strength perpendicular to laminations (under 180±5°C)	MPa	170 min	440	GB/T 1303.2.2009
Flexural modulus perpendicular to laminations	MPa	--	2.42x10 ⁴	GB/T 1303.2.2009
Charpy impact strength parallel to laminations (Notched)	kJ/m ²	33 min	121	GB/T 1303.2.2009
Tensile strength(MD)	MPa	300 min	459	GB/T 1303.2.2009



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Compressive strength perpendicular to laminations (23°C±2°C)	MPa	--	620	GB/T 1303.2.2009
Compressive strength perpendicular to laminations (180°C±2°C)	MPa	--	370	GB/T 1303.2.2009
THERMAL				
Temperature Index	°C	180	180	-
Thermal conductive coefficient (23°C)	W/(m·K)	--	0.432	GB/T 1303.2.2009
Coefficient of linear thermal expansion (30°C-120°C)	10 ⁻⁶ /K	--	28.5	GB/T 1303.2.2009
Flammability	Class	V-0	V-0	UL-94
ELECTRICAL				
Electric strength perpendicular to laminations (at 90°C±2°C in oil), 1mm in thickness	kV/mm	14.2 min	21.3	GB/T 1303.2.2009
Electric strength perpendicular to laminations (at 90°C±2°C in oil), 3mm in thickness	kV/mm	10.2 min	18.6	GB/T 1303.2.2009
Breakdown voltage parallel to laminations(at 90°C±2°C in oil)	kV	35 min	50 min	GB/T 1303.2.2009
Insulation resistance(after 24h immersion in water)	MΩ	5x10 ⁴ min	2.5x10 ⁶	GB/T 1303.2.2009
Relative Permittivity(50Hz)	--	5.5 max	5.2	GB/T 1303.2.2009
Dielectric dissipation(50Hz)	--	0.04 max	0.0335	GB/T 1303.2.2009
Comparative tracking index	--	200 min	CTI 225	GB/T 1303.2.2009

¹Custom colors available upon request

The above values are for reference only and are taken from the average test results, and do not represent complete consistency with the actual performance of the material.