



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

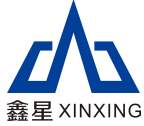
## TECHNICAL DATA SHEET

### GB/T 3240

Item:	<b>GB/T 3240 Phenolic epoxy Glass Fiber Laminate</b>			
Description:	3240 materials are electrical purposed alkali-free reinforced laminates,bonded with phenolic epoxy resin.The thermostability is grade B.It has good mechanical and dielectrical properties.			
Standards:	GB/T 1303.2-2009			
Application:	Applicable to mechanical, electrical, electronic, electrical and other fields. It is also used in the processing of insulating parts, and processed into all kinds of insulating parts and equipment insulating structural parts, which can be used in wet environment conditions and transformer oil.			
Availability:	Laminate Sheets:	Thickness	English Units(in) 0.008"-4.0"	SI unites(mm/cm) 0.2-101.6(mm)
		Sheet Size	40" x 79.5"	102cm x 202cm
			40" x 48"	102cm x 122cm
			48" x 80"	122cm x 204cm
	48" x 96"		122cm x 244cm	
Fabricated parts:	Xinxing Insulation custom fabricates insulation materials to the exact specifications and drawings of our customers			

#### TYPICAL PROPERTIES OF G10/EPGC201 SHEET

Key Characteristic	Units	IEC Requirement	Typical Values	Test Methods
<b>PHYSICAL</b>				
Standard color	--	--	Yellow <sup>1</sup>	
Density	g/cm <sup>3</sup>	1.8-2.0	1.8-2.0 <sup>2</sup>	GB/T 1303.2-2009
Water Absorption,24 hrs 3mm	mg	22 max	19	GB/T 1303.2-2009
<b>MECHANICAL</b>				
Flexural strength perpendicular to laminations (MD)	MPa	340 min	396	GB/T 1303.2-2009
Charpy impact strength parallel to laminations (Notched)	kJ/m <sup>2</sup>	33 min	44.2	GB/T 1303.2-2009
Tensile strength(MD)	MPa	300 min	315	GB/T 1303.2-2009
Compressive strength	MPa	350 min	412	GB/T 1303.2-2009
<b>THERMAL</b>				
Temperature Index	℃	120	120	-
Flammability	Class	HB	HB <sup>3</sup>	UL-94



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**ELECTRICAL**

<b>Electric strength perpendicular to laminations (at 90°C ±2°C in oil ), 1mm in thickness</b>	kV/mm	14.2 min	19.1	GB/T 1303.2-2009
<b>Breakdown voltage parallel to laminations(at 90°C ±2°C in oil)</b>	kV	35 min	70	GB/T 1303.2-2009
<b>Insulation resistance(after 24h immersion in water)</b>	MΩ	5x10 <sup>4</sup> min	4.9x10 <sup>6</sup>	GB/T 1303.2-2009
<b>Relative Permittivity(50Hz)</b>	--	5.5 max	4.92	GB/T 1303.2-2009
<b>Dielectric dissipation(50Hz)</b>	--	0.04 max	0.035	GB/T 1303.2-2009
<b>Comparative tracking index</b>	--	200 min	CTI 225	GB/T 1303.2-2009

<sup>1</sup>Custom colors available upon request,we have many custom colors,such as natural,black,orange,green,red,dark red,brown.etc

<sup>2</sup>The density of our pure epoxy fiberglass laminate sheet is about 1.9g/cm<sup>3</sup>,Custom formula available upon request

<sup>3</sup>The flammability of our 3240 can meet UL94 V-1 for thickness above 3mm.And Flame resistance 3240( flammability V-0) 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.