

# Dieletrik *Glass-SMC*

- Good electrical property
- Flammability UL94V0
- Good punching property
- Correspondent to Nema Gpo-3
- UP GM 203 according to IEC 60893-35
- UNI CEI 111730-3 ED 2005 Approval
- EN ISO 11925-2 APPROVAL
- AFNOR APPROVAL
- CEN/TS 45545-2:2009 APPROVAL

**Dieletrik *Glass-SMC*** is a polyester resin with a reinforcement of chopped glass fiber. This material more and more replace standard Gpo3 because have similar property at more cheap price. Excellent mechanical and electrical property, **Dieletrik *Glass-SMC*** is UL94V0 and is in conformity to AFNOR NF16-101 property.

It's very easy to work and punching, is used for Switchboards, phase barriers, Arc chamber... Sheets size 1250 X 2000 mm and thickness are available 2 to 100 mm in color red or white.

REV. 3/09 11Sept2009

Test Item	unit	Test Result	Test Standard
Tensile modulus of elasticity	Mpa	1.62×10 <sup>4</sup>	ISO527-2:1993
Felexural Strength	A(under normal conditions)	130	ISO178:1993
	130°C	75	
Flexural modulus of elasticity	Mpa	9.8×10 <sup>3</sup>	
Compressive Strength	Mpa	190	ISO604-1993(E)
Impact Strength (Charpy,Un-notched )	KJ/m <sup>2</sup>	86	ISO179-1:2000
Impact Strength (Un-notched Izod Impact Strength)	KJ/m <sup>2</sup>	79	ISO180:1982
Shear Strength	Mpa	47	IEC60893-2
Flammability (FV)	Grade	V-0	UL94-2001
Max working temperature	°C	155	--
Incandescent method	Grade	BH2-8	IEC60707:1981
Electrical Strength (Φ20 ball electrode in normal Oil)	MV/m	20,4	IEC60243-1:1998
Breakdown voltage, parallel	Kv	78,6	IEC60243-1:1998
Relative permittivity(1MHZ)	-----	4,03	IEC60250:1996
Dielectric dissipation factor (1MHZ)	-----	9.07×10 <sup>-3</sup>	
Insulation resistance	A(under normal conditions)	8.9×10 <sup>14</sup>	IEC60176-:1964
	D-24h / 23°C	3.0×10 <sup>14</sup>	
Proof Tracking index (PTI)	-----	600	IEC60112:1979
Comparative Tracking index (CTI)	-----	600	
Tracking resistance (2.5kv,360min)	-----	1B2.5 pass	IEC60587:1984
Max.erosion	mm	0,7	
Tracking resistance (2.5kv,300min)	-----	1A2.5 pass	ASTMD2303
Max.erosion	mm	0,3	
Water absoprtion	mg	25,8	ISO62:2008
Density	g/cm <sup>3</sup>	1,7	ISO1183-1:2004

**IN ACCORDANCE TO UNI CEI 11170-3 Ed. 2005 + FA 2007**  
**IN ACCORDANCE TO AFNOR NF F 16-101 - NF X 70-100**  
**IN ACCORDANCE TO CEN/TS 45545-2:2009**