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C.F./P.I. 02862770100 C.C.I.A.A. 301289
Reg. Imprese 47463 Cap. Soc. € 10.400,00

- **Size 1220x2440 mm**
- **NF F 16-101 M1 F0**
- **UL94 V-0**
- **Available Red or White**
- **NEMA LI-1 Grade GPO-3**
- **IEC 60893-3-5 : UP GM 203**

DielettrikGlass GPO3 is a fiberglass reinforced thermoset polyester rigid composite UL recognized and NF F16-101 approval M1F0. It is available in the sheet form described here, as well as a wide variety of channel, angle, and tube sizes. These materials are the industry standard for flame and arc/track resistant electrical insulation. In addition, the excellent combination of high strength, flame resistance, and low smoke generation has given it application in many other areas such as transit and marine where safe and economical materials are required.

		Value	Test norm
Mechanical properties			
Tensile strength, //, at 23°C	MPa	100	ISO 527
Flexural strength at 23°C, flatwise	MPa	160	ISO 178
Flexural strength at 130°C, flatwise	MPa	95	ISO 178
Modulus of elasticity in flexure at 23°C, flatwise	MPa	10000	ISO 178
Modulus of elasticity in flexure at 130°C, flatwise	MPa	5000	ISO 178
Compressive strength at 23°C, flatwise	MPa	280	ISO 604
Bonding strength (10mm thick)	N	5000	ASTM D 229
Physical properties			
Density	g/cm³	1.8 ± 0.1	ISO 1183 (method A)
Flammability		V-0	UL 94
Water absorption after 24h immersion at 23°C, thickness 4mm	mg	<50	ISO 62 (method 1)
Electrical properties			
Insulation resistance, as received	MOhm	10^7	IEC 60167
Insulation resistance, after 24h immersion in water at 23°C	MOhm	10^3	IEC 60167
Edgewise breakdown voltage, step by step, in oil at 23° C after immersion 48h/50°C/water	kV	20	IEC 60243-1
Edgewise breakdown voltage, step by step, in oil at 90° C, as received	kV	80	IEC 60243-1
Flatwise electric strength, step by step test, in oil at 90°C	kV/mm	12	IEC 60243-1
Tracking and erosion resistance		1 B 2.5	IEC 60587
Comparative tracking index - CTI		600	IEC 60112
Relative permittivity at 1 MHz		<4.5	IEC 60250
Dissipation factor at 1 MHz		<0.05	IEC 60250
Arc resistance	s	180	ASTM D 495
Thermal properties			
Temperature index (TI)		155	IEC 60216

All of the information, and recommendations pertaining to the properties and uses of the Dielettrika Ligure s.r.l. product described here are based upon tests and data believed to be accurate. The final determination regarding the suitability of any material described herein for the use contemplated, the manner of such use, and whether the use infringes any patents is the responsibility of the user. THERE IS NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATIONWARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE.