



TECHNICAL DATA SHEET NO. 1 / EDITION 3 DATED 06/ 2008

## PL 3

### GLASS MAT ON POLYESTER RESIN BASE

PROPERTY	STANDARD	UNIT	VALUE
DENSITY	UNI ISO 1183	g / cm <sup>3</sup>	1,85
WATER ABSORPTION	UNI ISO 62	%	0,20
FLEXURAL STRENGTH	UNI EN ISO 178	MPa	>170
TENSILE STRENGTH	UNI EN ISO 527/4	MPa	90
COMPRESSIVE STRENGTH ⊥	UNI EN ISO 604	MPa	300
COMPRESSIVE STRENGTH //	UNI EN ISO 604	MPa	200
IMPACT STRENGTH (CHARPY)	UNI EN ISO 179	J / cm <sup>2</sup>	>10
BONDING STRENGTH	ASTM D3846	N / mm <sup>2</sup>	37
BREAKDOWN VOLTAGE //	ASTM D229	kV	40
DIELECTRIC STRENGTH ⊥	ASTM D149	kV / mm	13
ARC RESISTANCE	ASTM D495	SEC.	190
TRACKING RESISTANCE	ASTM D2303	MIN.	500
FIRE RESISTANCE	CSE RF 2/75/A CSE RF 3/77	Class Class	1 1
LINEAR COEFF. OF THERMAL EXPANSION X/Y - DIRECTION Z - DIRECTION	TMA	PPM PPM	22-26 45
FLAMMABILITY	UL 94	Class	V0
FIRE BEHAVIOUR	AFNOR NF F 16.101	Class	F 1
SMOKE DENSITY (SMOULDERING)	ASTM E 662	Ds a 90 sec. Ds a 4 min.	0,0 1,8
SMOKE DENSITY (FLAMING)	ASTM E 662	Ds a 90 sec. Ds a 4 min.	0,0 3,3
HALOGEN DERIVATES CONTENT	CSE 20/37-85 TEIL 1		0
SMOKE TOXICITY	CSE 20/37-85 TEIL 2		0,78
THERMAL CLASS		°C	155

- Sheets out of PL 3 are based on glass mat reinforcement impregnated with polyester resin and suitable fillers. It is available in sizes of approx. 1265 x 1150 and 2000 x 1270 and in thicknesses from 1.5 to 100 mm.
- Standard colour is red. On request it is also possible to supply sheets in white and grey colour.
- The product fully complies with the requests of F.S. N°. 304.142 – 02 (Italian Railways).
- Standards: Type GPO-3 acc. to NEMALI -1; type Hm 2471 acc. to DIN 7735; type UP GM 3 acc. to ISO 1642; type UP GM 203 acc. to IEC 893-3-5

Note: Technical values shown on the present data-sheet have to be intended as reference values and are not binding.