

EPOXY GLASS THREADED ROD (CLASS FR-4)

<u>TECHNICAL CHARACTERISTICS</u>	<u>TEST METHOD</u>	<u>VALUE</u>	<u>UNIT</u>
<u>MECHANICAL PROPERTIES</u>			
ζ FLEXURAL STRENGTH AT RUPTURE	ISO 178	400	Mpa
APPARENT MODULUS OF ELASTICITY IN FLEXURE	ISO 178	24000	Mpa
ζ COMPRESSIVE STRENGTH	ISO 604	250	Mpa
// IMPACT STRENGTH (Izod)	ISO 180	43	KJ/m ²
TENSILE STRENGTH	ISO 527	300	Mpa
SPLIT LOAD	CEI	8000	N
COMPRESSIVE STRENGTH (axial)	ISO 604	-	Mpa
COHESION BETWEEN LAYERS	EN 61212-2	-	Mpa
<u>DIELECTRIC PROPERTIES</u>			
ζ ELECTRICAL STRENGTH AT 90°C IN OIL (3MM)	IEC 243-1	15	KV/mm
// BREAKDOWN VOLTAGE AT 90°C IN OIL	IEC 243-1	35	KV
PERMITTIVITY AT 48-62 Hz	IEC 250	5.5	-
DISSIPATION FACTOR AT 48 - 62 Hz	IEC 250	0.04	-
COMPARATIVE TRACKING INDEX	IEC 112	-	CTI
DRY ARC RESISTANCE	ASTM D 495	-	sec
INSULATION RESISTANCE AFTER IMMERSION IN WATER	IEC 167	5 x 10 ⁴	MΩ
<u>FIRE BEHAVIOUR</u>			
FLAME RESISTANCE: - IGNITION TIME - TOTAL ELAPSED TIME	ASTM D 229	- -	sec
INFLAMMABILITY	UL 94	V0	class
SPECIFIC SMOKE OPTICAL DENSITY	ASTM E 662	-	-
DETERMINATION OF GAS COMBUSTION, TOXITY INDEX	CEI 20.37/7	-	-
<u>THERMAL PROPERTIES</u>			
THERMAL CONDUCTIVITY	ISO 8302	0.3	W/Mk
LINEAR EXPANSION CO EFFICIENT	VDE 0304/2	10 - 20	10 ⁻⁶ K ⁻¹
<u>CHEMICAL PROPERTIES</u>			
DENSITY	ISO 1183	1.8 ÷ 1.9	g/cm ³
WATER ABSORPTION (3MM)	ISO 62	22	mg

SYMBOLS:

ζ PERPENDICULAR TO LAMINATION

// PARALLEL TO LAMINATION

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<u>OTHER PROPERTIES</u>			
INSULATING CLASS	CEI	B	class
MAX WORKING TEMPERATURE	-	130	°C
IEC DESIGNATION	IEC 893-3-1 IEC 61212-1	EP GC 202	-
CORRESPONDANCE TO OTHER STANDARDS	CEI DIN 7735 BS 3953 NEMA L1 NF C26 VSM	EV Hgw2372.1 EP4 FR4 141-VTEE1 S-EP GC2	-
STANDARD SIZES	-	1040 X 1080 1090 X 2260	mm
THICKNESS	-	0.3 - 80	mm
COLOUR	-	NATURAL	-
MAX LENGTH WITHOUT JOINT	-	-	mm
INTERNAL DIAMETER	-	-	mm
FINISHING (OTHERS ON REQUEST)	-	-	-