

Technical Data Sheet INBARIT 1105-6

Standard sizes	2260x1160	mm
Thickness	0.8-125	mm

Properties	Test method	Unit	1105-6
Fibre reinforcement	-	-	mat/woven
Polyester resin			
Specific gravity	ISO 1183	g/cm ³	1.95
Standard colour	-	-	white
DIN 7735 type	-	-	HM 2472
EN 60893/IEC 893 type	-	-	UPGM205
Nema-LI.1 Grade	-	-	
Mechanical properties			
Flexural strength (perpendicular)	ISO 178	MPa	250
Modulus of elasticity (perpendicular)	ISO 178	MPa	16000
Compressive Strength (perpendicular)	ISO 604	MPa	250
Impact strength (Charpy) parallel	ISO 179	kJ/m ²	50
Impact strength (Izod) parallel	ISO 180	kJ/m ²	44
Shearing strength parallel to laminate	ASTM D 732	MPa	20
Tensile strength	ISO 527	MPa	120
Electrical properties			
Electric strength at 90°C in oil (perpendicular)	IEC 60243	kV/mm	>9 kV/4 mm
Electric strength at 90°C in oil (parallel)	IEC 60243	kV	35
Permittivity at 48 Hz-62Hz	ASTM D-150		4.5
Permittivity at 1 MHz	ASTM D-150		4.5
Dissipation factor at 48Hz-62Hz	ASTM D-150		0.05
Dissipation factor at 1Hz	ASTM D-150		0.05
Insulation resistance after immersion in water		MΩ	5x10 ²
Proof tracking index	IEC 60112	PTI	500
Comparative tracking index	IEC 60112	CTI	600
Physical properties			
Thermal endurance	IEC 60216	T.I.	155
Flammability	UL94	4 mm	V0
Water absorption	ASTM D-570	mg	63 mg/4 mm