

Thermolite TL9000C Basic physical properties table

Item	Unit	Measurments	Testing Method	Remarks
Bending strength	MPa	250~280	JIS K 6911	25~28(kg/mm ²)
Bending elastic modulus	MPa	7,000~7,500	JIS K 6911	714~765(kg/mm ²)
Tensile strength	MPa	230~250	JIS K 6911	23~25(kg/mm ²)
Compression strength	MPa	500~550	JIS K 6911	51~56(kg/mm ²)
Impactvalue(Izod)	KJ/m ²	85 : Vertical to the layer 28 : Parallel to the layer	JIS K 6911	
Specific gravity	—	1.30~1.40	JIS K 6911	
Linear expansion coefficient	1/°C	0.6 × 10 ⁻⁵ 17 × 10 ⁻⁵	upper:Parallel to the layer lower:Vertical to the layer	
Percentage of absorption	%	0.2~0.3	JIS K 6911	
Swelling in OIL	%	2%	1,000 hours or more	Drection of accumulating
Hardness	Barcole hardness	48~52		
Dynamic friction coefficient		0.4		
Young'smodulus	Gpa	3.87		L=150mm expansion is 5.2mm at 13.5KN
Volume resistivity	Ω cm	7 × 10 ¹⁴	JIS K 6911	Thickness of sample,2mm Applied voltage,500v Load,2kg
Sheet resistance	Ω	1 × 10 ¹⁴	JIS K 6911	Thickness of sample,2mm Applied voltage,500v Load,2kg
Relative permittivity		3.5		25°C Frequency,1MHz