

Thermolite TL9012C Basic physical properties table

| Item | Unit | Measurments | Testing Method | Remarks |
|------------------------------|-------------------|--|--|---|
| Bending strength | MPa | 220~250 | JIS K 6911 | |
| Bending elastic modulus | MPa | 4,400~4,600 | JIS K 6911 | |
| Tensile strength | MPa | 200~230 | JIS K 6911 | |
| Compression strength | MPa | 470~520 | JIS K 6911 | |
| Impactvalue (Izod) | KJ/m ² | 85 : Vertical to the layer 24 : Parallel to the layer | JIS K 6911 | |
| Specific gravity | — | 1.34~1.40 | 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 | 58~62 | | |
| Dynamic friction coefficient | | 0.07 | | |
| Young'smodulus | Gpa | 1.98 | | L=150mm expansion is 5.2mm at 13.5KN |
| Volume resistivity | Ω cm | 9 × 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 | | 3.1 | | 25°C Frequency,1MHz |