

Data Sheet: CE 221

(Cyanate ester)

Details

This resin has long-term thermal stability with glass transition temperature of about 225°C. It is useful for electronic and industrial components. It has a tensile strength of 92MPa.

Key Features

Thermally stable

Thermal Properties

Property	Value
Heat deflection [°C]	231
Glass transition temperature [°C]	225
Coefficient of thermal expansion [K ⁻¹ · 10 ⁻⁶]	52
Thermal conductivity [W/m · K]	0.167
Specific heat capacity [J/kg · K]	1170

Mechanical Properties

Property	Value
Tensile strength [MPa]	92
Modulus of elasticity [GPa]	3.87
Flexural strength [MPa]	131
Flexural modulus [GPa]	3.78
Hardness	92
Impact strength [KJ/m ²]	1.23

Elongation at break [%]	3.3
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Physical Properties

Property	Value
Density [g/cm ³]	1.21
Water Absorption [%]	0.21
Electrical Resistivity [ohm-cm]	2.24×10^{14}

Reference

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