

THERMALLY CONDUCTIVE DIELECTRIC RESIN (TCDR)

MATERIALS DATA SHEET

MECHANICAL PROPERTY	METRIC	METHOD
XY Thermal Conductivity (W/mK)	1.8 - 2.1	ASTM E1461
Z Thermal Conductivity (W/mK)	0.7 - 0.8	ASTM E1461
Electrical Resistivity ($\Omega \cdot \text{cm}$)	10^{16}	ASTM D257
Dielectric Strength (kV/mm)	30	ASTM D149
Ultimate Tensile Strength (MPa)	37	ASTMD638
Young's Modulus (GPa)	6.4	ASTMD638
Strain at Break (%)	1.1	ASTMD638
HDT @ 0.45 MPa ($^{\circ}\text{C}$)	168	ASTMD648
HDT @ 1.81 MPa ($^{\circ}\text{C}$)	104	ASTMD648
Flexural Strength (MPa)	46	ASTMD790
Flexural Modulus (GPa)	5.9	ASTMD790

WHAT'S IN
YOUR
RESIN?

