



IT-150GSTC

Middle Tg / Halogen Free / Mid-Loss Laminate & Prepreg

- Halogen free, Middle-Tg (155°C)
- Compatible with FR-4 processes
- High thermal & CAF resistance reliability
- Environmental friendly materials

Laminate properties

Items	IPC TM-650	Typical Value	Unit
Peel Strength A. Low profile copper foil	2.4.8	5.0	lb/inch
Volume Resistivity	2.5.17.1	10 ¹⁰	MΩ-cm
Surface Resistivity	2.5.17.1	10 ¹⁰	MΩ
Moisture Absorption	2.6.2.1	0.12	%
Permittivity (Dk, 50% resin content) A. 1GHz B. 2GHz C. 5GHz D. 10GHz	2.5.5.13	4.2 4.1 4.0 3.9	--
Loss Tangent (Df, 50% resin content) A. 1GHz B. 2GHz C. 5GHz D. 10GHz	2.5.5.13	0.010 0.010 0.011 0.012	--
Flexural Strength A. Length direction B. Cross direction	2.4.4	470-500 400-430	N/mm ²
Thermal Stress 10 s at 288°C A. Unetched B. Etched	2.4.13.1	Pass Pass	Rating
Flammability	UL94	V-0	Rating
Glass Transition Temperature(DSC)	2.4.25	155	°C
Decomposition Temperature(5% W.L)	2.4.24.6	365	°C
X/Y Axis CTE (40°C to 125°C)	2.4.41	11/13	ppm/°C
Z-Axis CTE A. Alpha 1 B. Alpha 2 C. 50 to 260 Degrees C	2.4.24	35 230 3.1	ppm/°C ppm/°C %
Thermal Resistance A. T260 B. T288	2.4.24.1	>60 >60	Minutes Minutes

*The sample thickness : 0.76mm.