TECH DATA SHEET BMI-6000



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DESCRIPTION

BMI-6000 has been designed as a curable, low DK and Df alternative to replace both the Kapton and adhesive layers in the manufacture of FCCL materials. The material has excellent thermal stability and workability. It is soluble in a variety of solvents such as cyclopentanone, cyclohexanone, MEK, DMF, DMAC, and NMP in combination with aromatic solvents. It can be processed in a resin system as a solid or dissolved in a solvent.

HIGHLIGHTS

Toughener	Superior thermal stability
Hydrophobic	Good dielectric properties

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	METHOD	RESULT
Appearance at Room Temperature	Visual	Light yellow powder
Functionality		2
Molecular Weight - M _n	GPC	~19,000 daltons
Molecular Weight - M _w	GPC	~22,000 daltons
Polydispersity Index	GPC	1.18
Glass Transition	TMA	214°C
CTE α1	TMA	31 ppm/°C
Weight Loss @ 300°C	TGA	0.9%
Weight Loss @ 400°C	TGA	1.5%
Decomposition Temperature	TGA	504°C
Dielectric Constant (1)	IPC-TM-650 2.5.5.9	2.69 @ 1.0 GHz
Dissipation Factor (1)	IPC-TM-650 2.5.5.9	0.003 @ 1.0 GHz
Recommended Storage Temp		Room temperature

⁽¹⁾ Film preparation: 30-40% solids prepared in cyclohexanone, 4% dicumyl peroxide and 500 ppm inhibitor mix, vacuum degassing. Slow evaporation of solvent: 100°C for 6 hours, ramp to 120°C for 1 hour, ramp to 150°C for 1 hour, ramp to 230°C for 1 hour, ramp to 230°C for 1 hour.

Data is for reference only and may vary depending on testing method used.

RECOMMENDED FORMULATION AND USE:

BMI-6000 is recommended for use as an adhesive layer when laminating materials for FCCL applications. Adhesion promoters, solvent(s), are required for successful use.

REQUEST A SAMPLE OR PLACE AN ORDER

Customer Support

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REF: DMI Part Number: R1334