

TECH DATA SHEET

BMI-6000



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DESCRIPTION

BMI-6000 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
- Hydrophobic
- Superior thermal stability
- 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 α_1	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⁾ (Dk)	Cavity Perturbation Method @ 20GHz	2.6
Dissipation Factor ⁽¹⁾ (Df)		0.008
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 180°C for 1 hour, ramp to 200°C for 1 hour, ramp to 230°C for 1 hour.

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

RECOMMENDED FORMULATION AND USE:

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

REQUEST A SAMPLE OR PLACE AN ORDER

Customer Support

☎ 858-348-1122

✉ support@designermoleculesinc.com

REF: DMI Part Number: R1334