



DESCRIPTION

BMI-3000 Commercial Grade is a low cost bismaleimide oligomer that exhibits excellent flexibility and, on cure, forms very tough, hydrophobic polyimides. The material has excellent low pH hydrolytic resistance and thermal stability. As an additive it can improve rheological properties by increasing the thixotropic properties of a liquid monomer composition. This feature in turn can help to reduce resin bleed out on a variety of surfaces. It is soluble in most aromatic and aliphatic solvents such as toluene, xylene, NMP, etc. It can be processed in a resin system as a solid or dissolved in a solvent.

HIGHLIGHTS

- Toughener
- Superior thermal stability
- Hydrophobic

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	METHOD	RESULT
Appearance at Room Temperature	Visual	Light yellow powder
Functionality		2
Molecular Weight (approximate)		3,000 Daltons
Weight Loss @ 300°C	TGA	< 0.5%
Dielectric Constant (Dk)	Cavity Perturbation Method @ 20GHz	2.34
Dissipation Factor (Df)		0.0016
Tg	DMA	41°C
Melting Point (typical)	DSC	80°C
Td (5%)	TGA	436°C
Continuous Operating Temperature (approximate)		< 180°C
Recommended Storage Temp		25°C or below

Data is for reference only and may vary depending on testing method used. The structure shown above is an idealized representation of a statistical distribution.

RECOMMENDED FORMULATION USE:

BMI-3000 Commercial Grade is recommended for use as an additive to increase flexibility, hydrophobicity and thixotropy. It has excellent adhesion to a variety of organic substrates and adhesion to metals can be enhanced via coupling agents. When used as a base resin, it can produce films that are tough, flexible and demonstrate good peel strength.

CONTACT:

REQUEST A SAMPLE OR PLACE AN ORDER

Customer Support

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REF: DMI Part Number: R1225

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