



Average n = 1.3

DESCRIPTION

BMI-1500 in 25% MEK (Methyl Ethyl Ketone) is an amorphous, low molecular weight bismaleimide oligomer. It can be homo-cured via UV or free radical initiators to form tough, hydrophobic, cross-linked polyimides. The material has excellent low pH hydrolytic resistance and thermal stability. The amorphous nature of this imide-extended BMI allows it to form room-temperature-stable solutions in a variety of free radical reactive diluents.

HIGHLIGHTS

- Soluble in many reactive diluents
- Superior thermal stability
- Hydrophobic

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	METHOD	RESULT
Appearance at Room Temperature	Visual	Amber, viscous liquid
Functionality		2
Molecular Weight (approximate)		1,504 daltons
Weight Loss @ 300°C	TGA	< 1.5%
Dielectric Constant (Dk)	Cavity Perturbation Method @ 20GHz	2.42
Dissipation Factor (Df)		0.0021
Viscosity @ 60°C	Cone and Plate @ 5 rpm	20,000 ± 10,000 cP
Decomposition Temperature	TGA	> 400°C
Continuous Operating Temperature (approximate)		< 180°C
Recommended Storage Temp		Room Temperature

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-1500 in 25% MEK is recommended for use as an additive or base resin in adhesives that are designed for high temperature resistance. 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 adhesives that are tough, flexible and demonstrate good peel strength.

CONTACT:

REQUEST A SAMPLE OR PLACE AN ORDER

Customer Support

☎ 858-348-1122

✉ support@designermoleculesinc.com

REF: DMI Part Number: R1378