

## DESCRIPTION

BMI-1500 is an amorphous, low molecular weight bismaleimide oligomer that exhibits good adhesion to a variety of substrates. 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. It is soluble in many common solvents such as toluene, xylene, MIBK, etc.

## HIGHLIGHTS

• Soluble in many reactive diluents

• High adhesion to various substrates

Hydrophobic

Superior thermal stability

# **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%
Viscosity @ 60°C	Cone and Plate @ 5 rpm	20,000 ± 10,000 cP
Dielectric Constant (Dk)	Cavity Perturbation Method @ 20GHz	2.42
Dissipation Factor (Df)		0.0021
% Elongation	Instron	60%
Td (5%)	TGA	440°C
Continuous Operating Temperature (approximate)		< 180°C
Recommended Storage Temp		+5°C or cooler

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 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 substrates. When used as a base resin, it can produce adhesives that are tough, flexible and demonstrate good peel strength. BMI-1500 is compatible with PPE and Acrylates for free radical reaction and epoxy with anionic cure.

# CONTACT:

#### **REQUEST A SAMPLE OR PLACE AN ORDER**

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