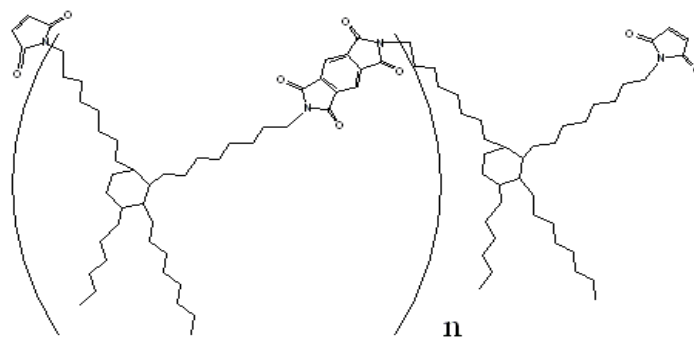


TECH DATA SHEET

BMI-3000



10080 Willow Creek Road
San Diego, CA 92131
858-348-1122
www.designermoleculesinc.com



Where n = 1 to 10

DESCRIPTION

BMI-3000 is a bismaleimide oligomer that exhibits excellent flexibility and, on cure, forms very tough, hydrophobic polyimides. The material has excellent hydrolytic stability 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, nmp, etc.

HIGHLIGHTS

• Toughener	• High adhesion to various substrates
• Hydrophobic	• Superior thermal stability

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	METHOD	RESULT
Appearance at Room Temperature	Visual	Dark brown liquid (50% solution in toluene)
Viscosity		
Functionality		2
Molecular Weight (approx.)		3,000 cps
Weight Loss @ 300°C	TGA	< 0.5%
Melting Point (typical)	DSC	80°C
Decomposition Temperature	TGA	> 400°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 is recommended for use as an additive to increase flexibility, hydrophobicity and thixotropy. It has excellent adhesion to a variety of substrates. 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

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REF: DMI Part Number: R1177

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