



Average n = 3.1

## 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
- Hydrophobic
- High adhesion to various substrates
- Superior thermal stability

## 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%
Melting Point (typical)	DSC	80°C
Decomposition Temperature	TGA	> 400°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 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

Customer Support

☎ 858-348-1122

✉ [support@designermoleculesinc.com](mailto:support@designermoleculesinc.com)

REF: DMI Part Number: R1225