

Where  $n = 1$  to 10

## DESCRIPTION

**BMI-5000** is an imide-extended bismaleimide oligomer that exhibits excellent toughness in the cured state with an intermediate cross-link density. It is soluble in aromatic solvents. This maleimide functional oligomer can be cured thermally, via UV irradiation, or in the presence of free-radical initiators to form a tough thermoset. It is soluble in most aromatic and aliphatic solvents such as toluene, nmp, etc. It can be processed in a resin system as a solid or dissolved in a solvent.

## HIGHLIGHTS

- Low cross-link density
- Non-tacky
- Film-forming
- Maleimide functional oligomer
- Cures to a tough thermoset
- Additive to enhance toughness in thermoset compositions

## TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	METHOD	RESULT
Appearance at Room Temperature	Visual	Light yellow powder
Functionality		2
Molecular Weight (approximate)		5,000 daltons
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-5000** 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

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