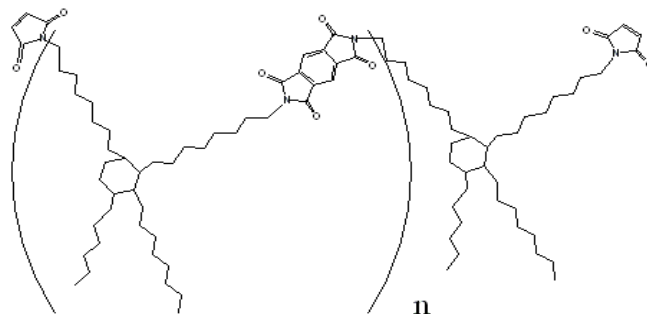


TECH DATA SHEET

BMI-5000



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

DESCRIPTION

Where n = 1 to 10

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. It is an amber, waxy solid at room temperature and can be cast as a hot melt or from solution to form pliable, non-tacky films. This maleimide functional oligomer can be cured thermally, via UV irradiation, or in the presence of free radical initiators to form a tough thermoset. **BMI-5000** is supplied as a 50% solids solution in toluene. The material can be supplied as a powdered solid or in alternative solvents.

HIGHLIGHTS

- Intermediate cross-link density
- Non-tacky, film forming, maleimide functional oligomer
- Cures to a tough thermoset

SUGGESTED APPLICATIONS

- Film adhesives
- Additive to enhance toughness in thermoset compositions

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

Appearance at Room Temperature (50% solution in toluene)		Dark Brown Liquid
Functionality		2
Molecular Weight (approx.)		5000
Decomposition Temperature (solid resin)	TGA	> 400°C
Recommended Storage Temp		25°C or below

*Data is for reference only and may vary depending on testing method used.
The above structure is an idealized representation of a statistical distribution.*

RECOMMENDED FORMULATION USE:

The **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

Dawn Butts

☎ 858-348-1122 ext. 4726

✉ dbutts@designermoleculesinc.com

REF: DMI Part Number: R1171