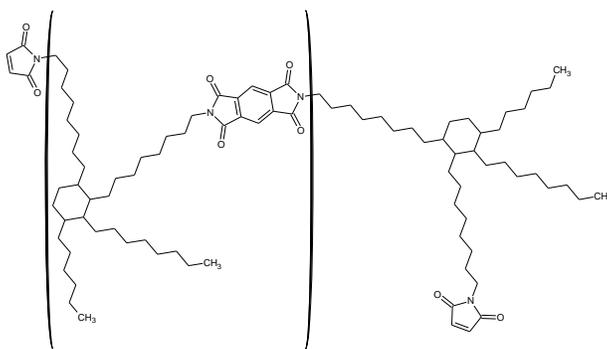


BMI-5000 Powder



Where n = 1 to 10

DESCRIPTION

BMI-5000 P 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
Dielectric Constant (Dk)	Cavity Perturbation Method @ 20 GHz	2.4
Dissipation Factor (Df)		0.0023
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 P 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

REF: DMI Part Number: R1171-P