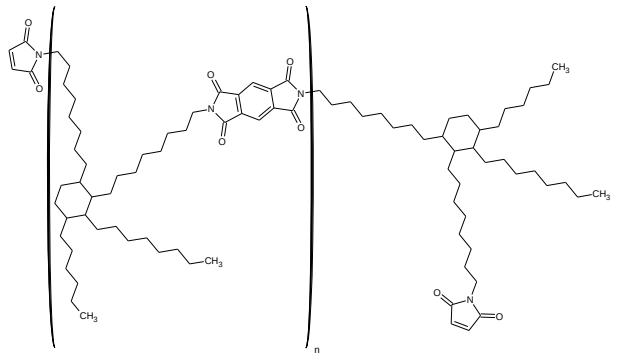
TECH DATA SHEET

BMI-5000 T (50% in Toluene)



Where n = 1 to 10

DESCRIPTION

BMI-5000 T 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. In its pure form BMI-5000 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 T is supplied as a 50% solids solution in toluene. The material can also be supplied as a solid slab, powdered solid or in alternative solvents.

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	Dark brown liquid (50% solution in toluene)
Viscosity @ 25°C (typical)	Haake Rheometer	1,000 cP
Functionality		2
Molecular Weight (approx.)		5,000 daltons
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-5000 T is recommended for use as an additive to increase flexibility, hydrophobicity and thixotropy. It has excellent adhesion to a variety of organic substrates and adhesion to metals can be enhanced via coupling agents. 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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REF: DMI Part Number: R1171-T