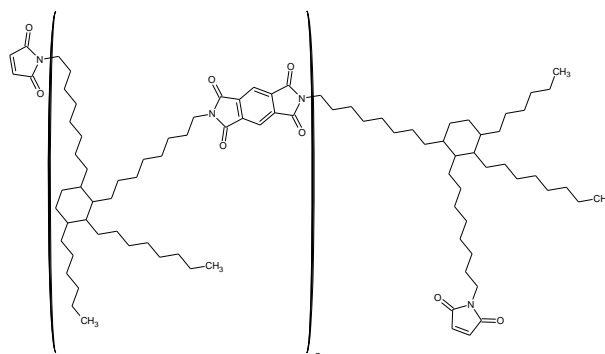


TECH DATA SHEET

BMI-5000



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. 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 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 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-T