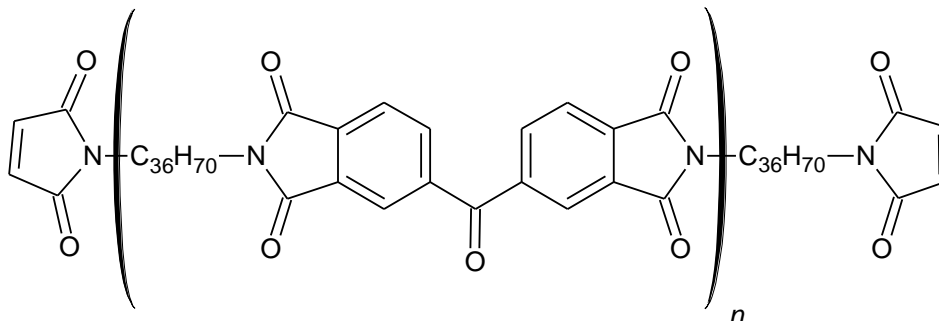


TECH DATA SHEET

BMI-1550



DESCRIPTION

BMI-1550 is an amorphous, low molecular weight bismaleimide oligomer that exhibits good adhesion to a variety of substrates. It can be homo-cured via UV or free radical initiators to form tough, hydrophobic, cross-linked polyimides. The material has excellent low pH hydrolytic resistance and thermal stability. The amorphous nature of this imide-extended BMI allows it to form room-temperature-stable solutions in a variety of free radical reactive diluents. It is soluble in many common solvents such as toluene, xylene, MIBK, etc.

HIGHLIGHTS

- Soluble in many reactive diluents
- High adhesion to various substrates
- Hydrophobic
- Superior thermal stability

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	METHOD	RESULT
Appearance at Room Temperature	Visual	Amber, viscous liquid
Functionality		2
Molecular Weight (approximate)		5,000 Daltons
T _g	TMA	20 °C
CTE α_1/α_2	TMA	86 ppm / 214 ppm
Weight Loss @ 300°C	TGA	< 2.0%
Temperature at 5% weight loss	TGA	400 °C
Viscosity @ 60°C	Cone and Plate @ 5 rpm	25,000 ± 10,000 cP
Decomposition Temperature	TGA	452 °C
Continuous Operating Temperature (approximate)		< 180°C
Recommended Storage Temp		Room Temperature

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-1550 is recommended for use as an additive or base resin in adhesives that are designed for high temperature resistance. 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 adhesives 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: R1359