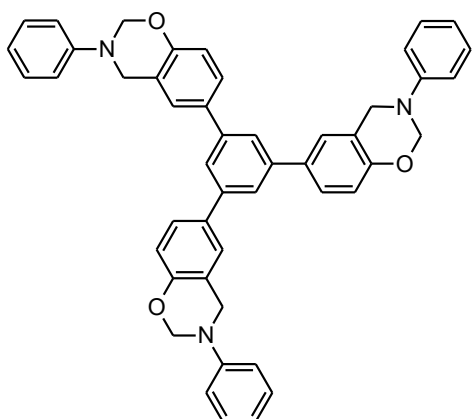


Trifunctional Benzoxazine, BTBz

- ◆ This benzoxazine compound features three oxazine rings.
- ◆ It forms a highly cross-linked, heat-resistant thermosetting polymer.
- ◆ The cured resin offers excellent thermal stability, flame retardancy, low moisture absorption, low dielectric properties, and low coefficient of thermal expansion (CTE).

General Information



Chemical Name	6,6',6''-(1,3,5-benzenetriyl)tris(3-phenyl-3,4-dihydro-2H-1,3-benzoxazine))
CAS	1821639-32-0
Molecular Weight	705.8
Melting Point	180 ~ 210 °C
Physical Form	White Powder
Purity	> 90 % (inc. Difunctional Benzoxazine)
Curing Temp.	T_{onset} 212 °C / T_{peaktop} 238 °C

Cured Material Properties

Glass Transition Temp.**	T_g 276 °C
Decomposition Temp.*	T_{d5} 396 °C / T_{d10} 424 °C
Char Yield*	Y_c 74% @ 600 °C

Curing Condition

*240°C, 1h

** 120°C, 2h → 140°C, 2h → 160°C,
2h → 180°C, 2h → 200°C, 2h →
220°C, 2h

Contact information

Japan Material Technologies Corporation
2-3-4 Nihonbashi-Honcho, Chuo-ku Tokyo
www.jmtc.co.jp/en/