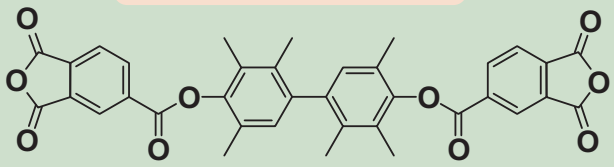
透明ポリイミド用エステル型酸二無水物

開発品

Ester-linked tetracarboxylic dianhydrides for Colorless Polyimide

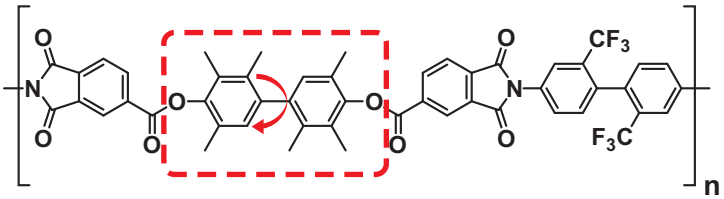
TMPBP-TME



PIに期待される特性
Expected properties of PI

- ●無色透明 Colorless
- ●低線熱膨張係数 Low CTE
- ●溶剤可溶性 High solubility

TMPBP-TME を用いた透明ポリイミド　Colorless Polyimide with TMPBP-TME



WO2014046180A1（東邦大学様との共同開発）

ビフェニル骨格のねじれ
The distorted structure of p-biphenylene units

従来のポリイミド
Conventional Polyimide

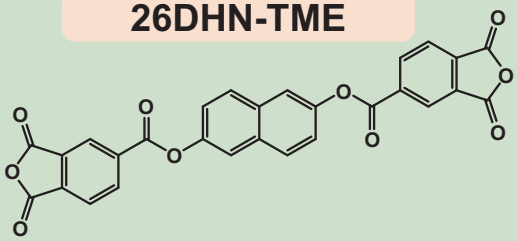
TMPBP-TME / TFMB

低誘電ポリイミド用エステル型酸二無水物

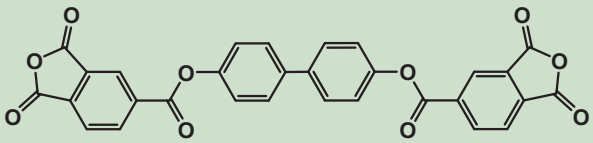
開発品

Ester-linked tetracarboxylic dianhydrides for low dielectric constant Polyimide

26DHN-TME



BP-TME



PIに期待される特性
Expected properties of PI

●耐熱性 Heat-resistant　●低誘電率 Low Dk　●低誘電正接 Low Df

PI 物性データ一覧 (Property data list)

酸二無水物	PMDA（汎用）	BP-TME	26DHN-TME	
ジアミン	ODA			TFMB
誘電率／誘電正接(5 GHz)	3.4／0.020	3.4／0.0026	2.9／0.0024	3.3/0.0018
CTE(ppm/K)	30.0	43.0	33.8	51.1
Tg(℃)	409	241	239	246
引張り弾性率(GPa)	2.0	2.7	3.0	—
破断強度(GPa)	0.11	0.17	0.13	—

HC2310