特殊ビスフェノール誘導体

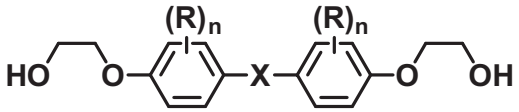
Derivatives from Specialty Bisphenols

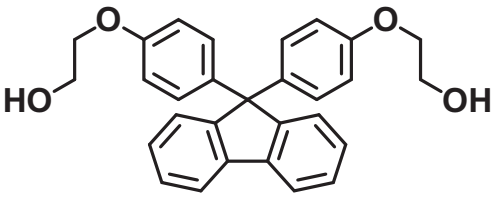
ヒドロキシエチルエーテル化による光学レンズモノマーやリン酸エステル化による
難燃剤への適用を通じ、特殊ビスフェノールの誘導体開発に取り組んでいます。

The continual efforts focus on the chemical modification of Specialty Bisphenols by Hydroxy-ethyl-etherification, Phosphorylation, etc., aiming to get the functional materials with the outstanding optical characteristics or the flame retardancy.

光学用途への展開 For Optical Applications

●ジオールへの誘導

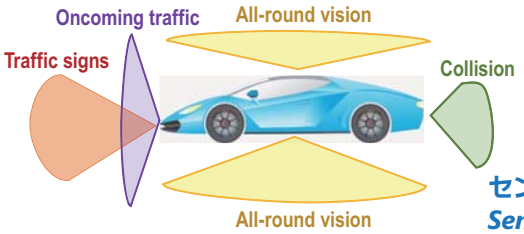




BisPEO-FL

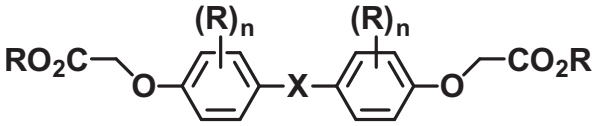
スマートフォンカメラレンズ
Smartphone Camera Lens

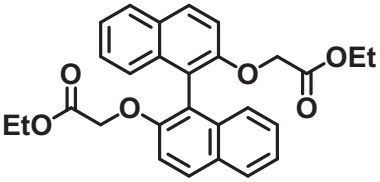
光学レンズ
Optical Lens



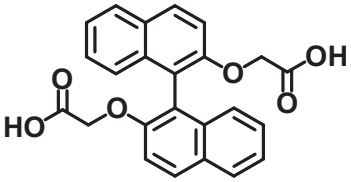
センサーカメラ
Sensor Camera

その他誘導体への展開





BINOL-DEC

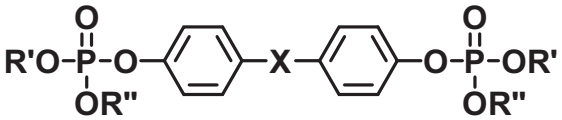


BINOL-DC

難燃剤への展開（リン酸エステル誘導体） For Flame Retardant（FR, Phosphoric Acid Ester Derivatives）

●耐熱性向上・流動性改善の両立

Improvement of Heat Resistance Compatible with Enhanced Flowability

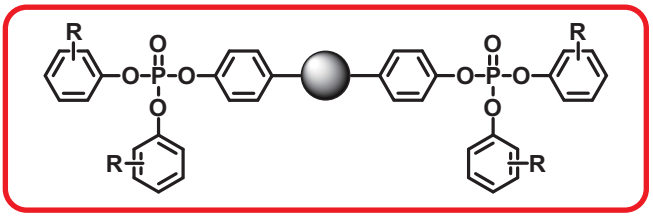


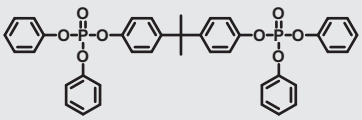
●特殊ビスタイプ

Phosphoric FR from Specialty Bisphenol

	難燃剤無添加	BPAタイプ	特殊ビスタイプ
燃焼性 UL-94 (1/8 inch)	Burn	V-0	**V-0**
熱変形温度 HD[℃] (1.82MPa)	120	85	**95**
溶融流動性 MFR [g/10min]230℃・5.00kg	3	20	**25**
衝撃強さ Izod [J/m] (1/8 inch)	600	600	**550**
比誘電率[εr] (添加部数：1GHz)	2.78	3	**2.64**
誘電正接[tanδ] (添加部数：1GHz)	0.0091	0.0081	**0.0066**

難燃性、樹脂物性データ（PC/ABS）、誘電性データ（エポキシ樹脂）



固体状で耐加水分解性が良好
Solid with Excellent hydrolysis resistance.

従来品（BPAタイプ）
Phosphoric FR from BPA