

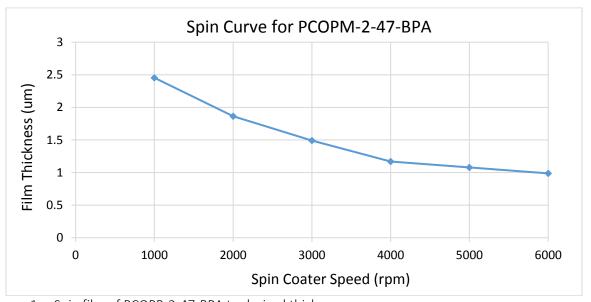
Application Notes: PCOPM-2-47-BPA

Recommended Process: Bisphenol A Diglycerolate Dimethacrylate Nanocomposite

Nanocrystal: ZrO₂ – PM (90wt% loading in monomers) **Monomers**: Bisphenol A Diglycerolate Dimethacrylate

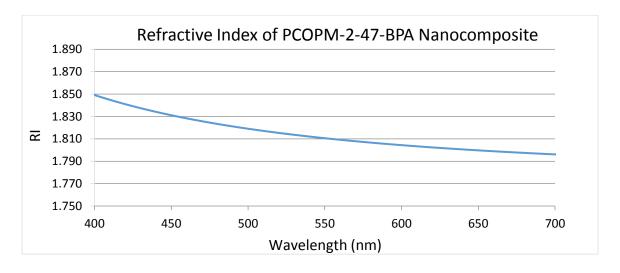
Solvent: PGMEA

Photoinitiator: UV curing agent is included



- 1. Spin film of PCOPR-2-47-BPA to desired thickness
- 2. Pre-bake: 100°C for 1 to 2 minutes in air
- 3. 60 to 120 second cure using Dymax EC-5000 system with a mercury "H" bulb (50mW/cm²)
- 4. Post-bake: 100-130°C for 10 minutes in air

Results may vary with different UV curing systems.

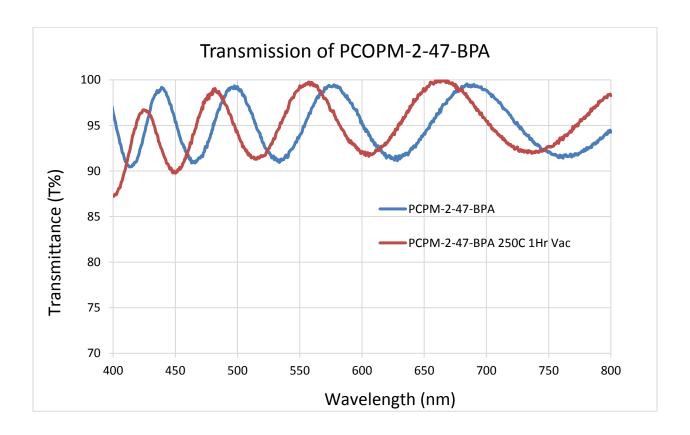




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%Т	>95
RI @ 633nm	1.801
Abbe Number	36

High Temperature Stability: the blue curve is the transmittance of the freshly made film while the orange curve is the transmittance of the film after 1 hour 250 °C baking under vacuum. The consistency of transmittance demonstrates the high temperature stability of PCOPM-2-47-BPA.





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Rev. 003 - 1/3/17

Chemical Resistance: the following table shows that PCOPM-2-47-BPA resists all the common wet-processes during OLED panel fabrication. Adhesion to glass substrate is tested by scotch tape with no cross-hatching and a green check mark indicates passing performance.

	HCl/H₂O (1:3) 5 min	HCI/H₂O (1:1) 5 min	KOH (0.5wt%) 5 min	KOH (1wt%) 5 min	KOH (5wt%) 5 min	Acetone/ Sonicate 5 min	IPA/ Sonicate 5 min	DI Water 5 min
PCOPM- 2-47-BPA	V	×	×	×	×	V	√	V