Noval Thermally Cross-Linkable Host Materials for Multilayered Solution-Processed OLEDs

Product Specifications

LT-N4063 DV-CBP

$C_{40}H_{28}N_2$
536.66 g/mole
240 nm (Film)
384 nm (Film)
-6.1 eV
-2.75 eV



Reference : Organic Electronics 14 (2013) 1614–1620

Features

- A thermally cross-linkable host material DV-CBP is thermally cross-linked at styrene end-groups through curing at approximately 180°C without polymerization initiator.
- The DV-CBP host exhibited a PL quantum efficiency of 76% when doped with blue-fluorescent BDAVBi, which is comparable to efficiency of 78% that observed using CBP as host.
- Introduction of the TPBi electron-transporting layer on top of the cross-linked emissive layer can improve the electron injection and hole blocking in the devices and thus lead to lower driving voltages and higher efficiencies than those of a device with a vacuum deposited Ca electrode.

Device Application

ITO/PEDOT:PSS(40 nm)/ DV-CBP : 20wt%PBD : 8 wt%BDAVBi(40nm)/TPBi(40nm)/NaF(4nm)/ Al(100nm).

Related products from Lumtec :





LT-PS001 PEDOT:PSS

LT-E303 PBD

LT-E409 CBP

LT-E608 BDAVBi



Our products are used for testing and research purpose; they are not guaranteed in patent contention by customer use.

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