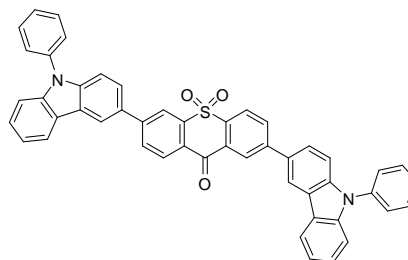


Substitution Conformation Balances the Oscillator Strength and Singlet-Triplet Energy Gap for Highly Efficient D-A-D Thermally

Product Specifications

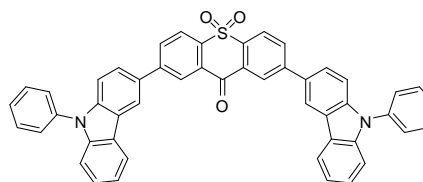
LT-N6065 2,6-TXO-PhCz

Grade	Sublimed, >99%
Formula	C ₄₉ H ₃₀ N ₂ O ₃ S
M.W.	726.84 g/mole
HOMO/LUMO	-5.77/-3.46 eV



LT-N6066 2,7-TXO-PhCz

Grade	Sublimed, >99%
Formula	C ₄₉ H ₃₀ N ₂ O ₃ S
M.W.	726.84 g/mole
HOMO/LUMO	-5.78/-3.49 eV



* *Adv. Optical Mater.* 2019, 7, 1801767. <https://doi.org/10.1002/adom.201801767>

Features

- 2,6-TXO-PhCz & 2,7-TXO-PhCz endow the high efficiency of the OLED devices with a EQE of 23.2% & 24.4, a maximum current efficiency of 72.3 & 74.6 cd A⁻¹, a maximum power efficiency of 64.9 & 68.9 lm W⁻¹.

Table 2. Summary of OLEDs Performance.

Dopant ^{a)}	L _{max} [cd m ⁻²] ^{b)}	V _{on} [V] ^{c)}	CE _{max} [cd A ⁻¹] ^{d)}	PE _{max} [lm W ⁻¹] ^{d)}	EQE _{max} [%] ^{d)}	CIE (x,y) ^{e)}
2,3-TXO-PhCz	9000	4.0	37.2	27.8	11.9	(0.42,0.55)
2,6-TXO-PhCz	7600	3.5	72.3	64.9	23.2	(0.40,0.55)
2,7-TXO-PhCz	11 400	3.5	74.6	68.9	24.4	(0.39,0.55)
3,6-TXO-PhCz	6600	3.5	54.3	48.8	18.1	(0.43,0.53)

* Table reference: *Adv. Optical Mater.* 2018, 1801190

