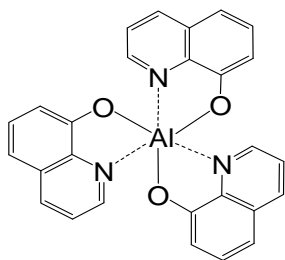


# Fluorescent Host Materials

**LT-E401**

**Alq<sub>3</sub>**

**Tris(8-hydroxy-quinolato)aluminium**

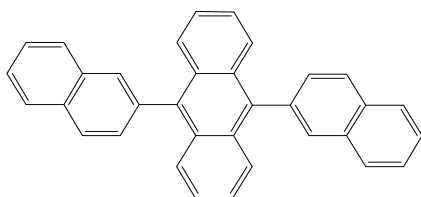


Formula : C<sub>27</sub>H<sub>18</sub>AlN<sub>3</sub>O<sub>3</sub>  
 Molecular Weight : 459.43 g/mole  
 Thermal Gravimetric Analysis : 300°C (0.5% weight loss)  
 Absorption : 259nm (in THF)  
 Photoluminescence : 512nm (in THF)

**LT-E403**

**ADN**

**9,10-Di(naphth-2-yl)anthracene**

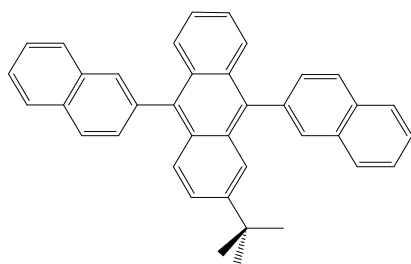


Formula : C<sub>34</sub>H<sub>22</sub>  
 Molecular Weight : 430.54 g/mole  
 Thermal Gravimetric Analysis : 320°C (0.5% weight loss)  
 Absorption : 375, 395nm (in THF)  
 Photoluminescence : 425nm (in THF)

**LT-E404**

**TBADN**

**2-Tert-butyl-9,10-di(naphth-2-yl)anthracene**

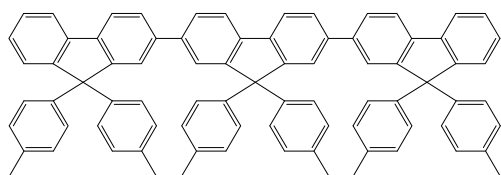


Formula : C<sub>38</sub>H<sub>30</sub>  
 Molecular Weight : 486.64 g/mole  
 Thermal Gravimetric Analysis : 320°C (0.5% weight loss)  
 Absorption : 375, 395nm (in THF)  
 Photoluminescence : 431nm (in THF)

**LT-E408**

**TDAF**

**2,7-Bis[9,9-di(4-methylphenyl)-fluoren-2-yl]-9,9-di(4-methylphenyl)fluorene**

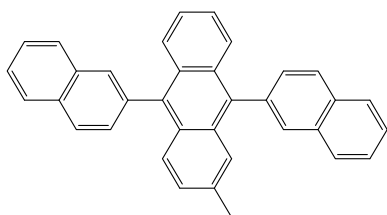


Formula : C<sub>81</sub>H<sub>62</sub>  
 Molecular Weight : 1035.36 g/mole  
 Glass Transition Temperature : 201°C  
 Thermal Gravimetric Analysis : 400°C (0.5% weight loss)  
 Absorption : 353nm (in THF)  
 Photoluminescence : 397, 419nm (in THF)

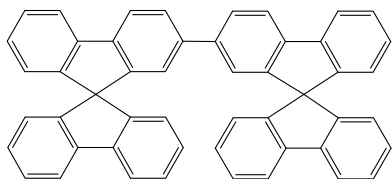
**LT-E410**

**MADN**

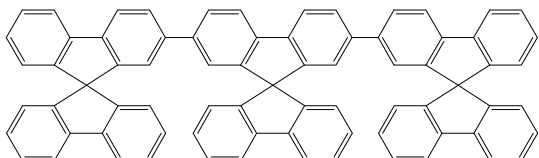
**2-Methyl-9,10-bis(naphthalen-2-yl)anthracene**



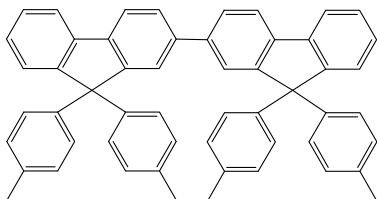
Formula : C<sub>35</sub>H<sub>24</sub>  
 Molecular Weight : 444.57 g/mole  
 Thermal Gravimetric Analysis : 330°C (0.5% weight loss)  
 Absorption : 379, 399nm (in CH<sub>2</sub>Cl<sub>2</sub>)  
 Photoluminescence : 439nm (in CH<sub>2</sub>Cl<sub>2</sub>)  
 Reference : SID 04 DIGEST. 710.

**LT-E411****BSBF****2-(9,9-Spirobifluoren-2-yl)-9,9-spirobifluorene**

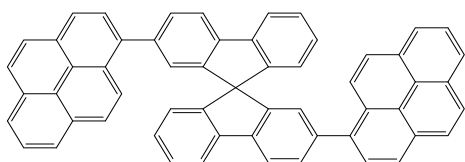
Formula :  $C_{50}H_{30}$   
 Molecular Weight : 630.77 g/mole  
 Glass Transition Temperature : 176°C  
 Thermal Gravimetric Analysis : 340°C (0.5% weight loss)  
 Absorption : 330nm (in THF)  
 Photoluminescence : 384nm (in THF)

**LT-E412****TSBF****2,7-Bis(9,9-spirobifluoren-2-yl)-9,9-spirobifluorene**

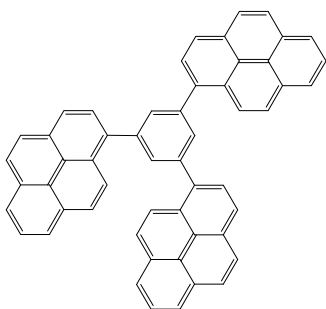
Formula :  $C_{75}H_{44}$   
 Molecular Weight : 945.15 g/mole  
 Glass Transition Temperature : 231°C  
 Thermal Gravimetric Analysis : 420°C (0.5% weight loss)  
 Absorption : 350nm (in THF)  
 Photoluminescence : 395, 415nm (in THF)

**LT-E413****BDAF****2-[9,9-Di(4-methylphenyl)-fluoren-2-yl]-9,9-di(4-methylphenyl)fluorene**

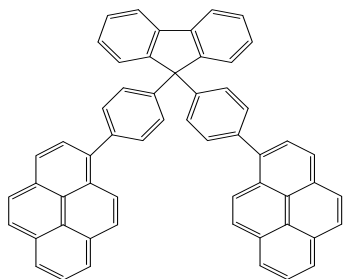
Formula :  $C_{54}H_{42}$   
 Molecular Weight : 690.91 g/mole  
 Glass Transition Temperature : 153°C  
 Thermal Gravimetric Analysis : 340°C (0.5% weight loss)  
 Absorption Max. : 333nm (in THF)  
 Photoluminescence : 368, 386nm (in THF)

**LT-N428****2,2'-Spiro-Pye****2,2'-Di-pyrenyl-9,9-spirobifluorene**

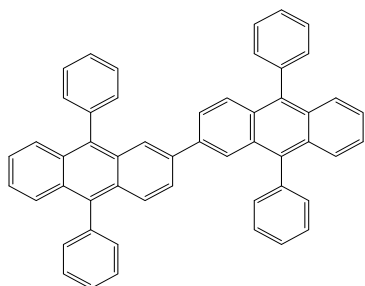
Formula :  $C_{57}H_{32}$   
 Molecular Weight : 716.86 g/mole  
 Glass Transition Temperature : 186°C  
 Thermal Gravimetric Analysis : 470°C (0.5% weight loss)  
 Absorption : 279, 347nm (in THF)  
 Photoluminescence : 414nm (in THF)

**LT-N429****TPB3****1,3,5-Tri(pyren-1-yl)benzene**

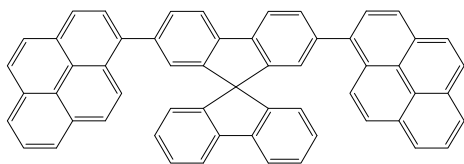
Formula :  $C_{54}H_{30}$   
 Molecular Weight : 678.81 g/mole  
 Thermal Gravimetric Analysis : 390°C (0.5% weight loss)  
 Absorption : 280, 352nm (in THF)  
 Photoluminescence : 388nm (in THF)

**LT-N447****BPPF****9,9-Bis[4-(pyrenyl)phenyl]-9H-fluorene**

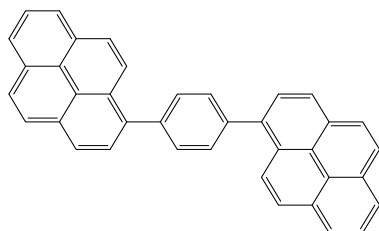
Formula :  $C_{57}H_{34}$   
 Molecular Weight : 718.88 g/mole  
 Glass Transition Temperature : 177°C  
 Thermal Gravimetric Analysis : 460°C (0.5% weight loss)  
 Absorption : 280, 344nm (in THF)  
 Photoluminescence : 385, 402nm (in THF)  
*Lumtec patent pending*

**LT-N452****TPBA****2,2'-Bi(9,10-diphenyl-anthracene)**

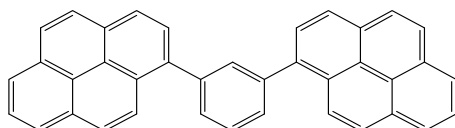
Formula :  $C_{52}H_{34}$   
 Molecular Weight : 658.83 g/mole  
 Thermal Gravimetric Analysis : 420°C (0.5% weight loss)  
 Absorption : 294, 333nm (in THF)  
 Photoluminescence : 455nm (in THF)  
*Reference : Appl. Phys. Lett., 89, 063504(2006).*

**LT-N458****Spiro-Pye****2,7-Di-pyrenyl-9,9-spirobifluorene**

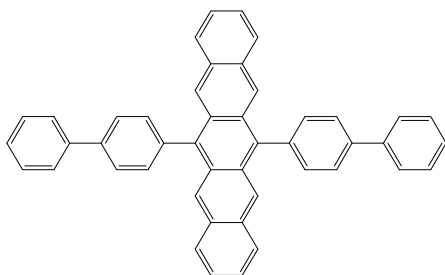
Formula :  $C_{57}H_{32}$   
 Molecular Weight : 716.86 g/mole  
 Glass Transition Temperature : 189°C  
 Thermal Gravimetric Analysis : 470°C (0.5% weight loss)  
 Absorption : 363nm (in THF)  
 Photoluminescence : 424nm (in THF)

**LT-N472****p-Bpye****1,4-Di(pyren-1-yl)benzene**

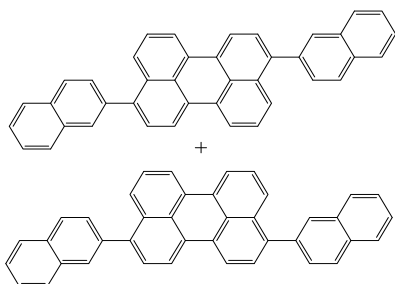
Formula :  $C_{38}H_{22}$   
 Molecular Weight : 478.58 g/mole  
 Thermal Gravimetric Analysis : 410°C (0.5% weight loss)  
 Absorption : 280, 351nm (in  $CH_2Cl_2$ )  
 Photoluminescence : 431nm (in  $CH_2Cl_2$ )

**LT-N473****m-Bpye****1,3-Di(pyren-1-yl)benzene**

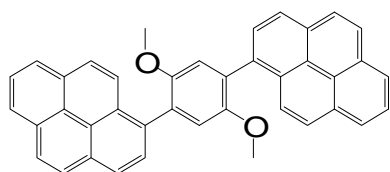
Formula :  $C_{38}H_{22}$   
 Molecular Weight : 478.58 g/mole  
 Glass Transition Temperature : 97°C  
 Thermal Gravimetric Analysis : 360°C (0.5% weight loss)  
 Absorption : 279, 350nm (in THF)  
 Photoluminescence : 384nm (in THF)

**LT-N478****DBPenta****6,13-Di-biphenyl-4-yl-pentacene**

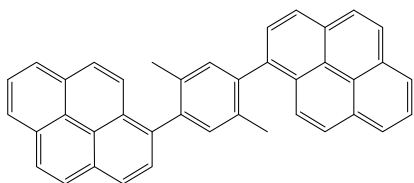
Formula :  $C_{46}H_{30}$   
 Molecular Weight : 582.73 g/mole  
 Thermal Gravimetric Analysis : 390°C (0.5% weight loss)  
 Absorption : 305nm (in THF)  
 Photoluminescence : 432, 620nm (in THF)

**LT-N479****DNP****3,9-di(naphthalen-2-yl)perylene and 3,10-di(naphthalen-2-yl)perylene mixture**

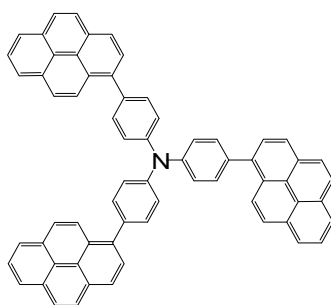
Formula :  $C_{40}H_{24}$   
 Molecular Weight : 504.62 g/mole  
 Thermal Gravimetric Analysis : 370°C (0.5% weight loss)  
 Absorption : 434, 460nm (in THF)  
 Photoluminescence : 488nm (in THF)  
 Reference : *Journal of Applied Physics*, 102,104908(2007)

**LT-N480****DOPPP****1,1'-(2,5-dimethoxy-1,4-phenylene)dipyrene**

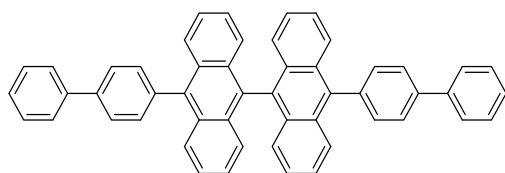
Formula :  $C_{40}H_{26}O_2$   
 Molecular Weight : 538.63 g/mole  
 Glass Transition Temperature : 135°C  
 Thermal Gravimetric Analysis : 340°C (0.5% weight loss)  
 Absorption : 345nm (in  $CH_2Cl_2$ )  
 Photoluminescence : 433nm (in  $CH_2Cl_2$ )  
 Reference : *Adv. Funct. Mater.* 2008, 18, 67.

**LT-N481****DMPPP****1,1'-(2,5-dimethyl-1,4-phenylene)dipyrene**

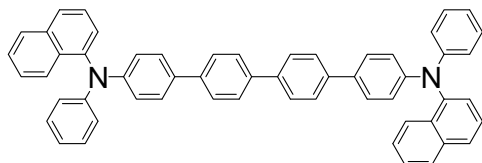
Formula :  $C_{40}H_{26}$   
 Molecular Weight : 506.63 g/mole  
 Glass Transition Temperature : 137°C  
 Thermal Gravimetric Analysis : 250°C (0.5% weight loss)  
 Absorption : 278nm (in  $CH_2Cl_2$ )  
 Photoluminescence : 383,399nm (in  $CH_2Cl_2$ )

**LT-N487****TPyPA****Tris[4-(pyrenyl)-phenyl]amine**

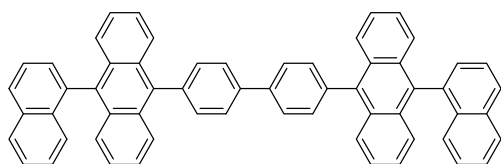
Formula :  $C_{66}H_{39}N$   
 Molecular Weight : 846.02 g/mole  
 Thermal Gravimetric Analysis : 500°C (0.5% weight loss)  
 Absorption : 271nm (in  $CH_2Cl_2$ )  
 Photoluminescence : 479nm (in  $CH_2Cl_2$ )  
 Reference : *Appl. Phys. Lett.*, 91, 023503 (2007).

**LT-N488****BANE****10,10'-di(biphenyl-4-yl)-9,9'-bianthracene**

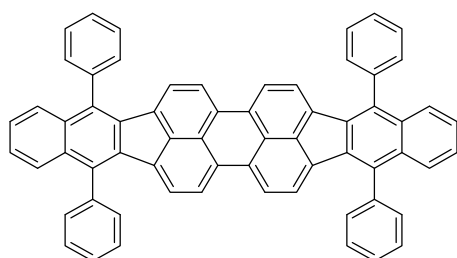
Formula :  $C_{52}H_{34}$   
 Molecular Weight : 658.83 g/mole  
 Thermal Gravimetric Analysis : 350°C (0.5% weight loss)  
 Absorption : 260nm (in  $CH_2Cl_2$ )  
 Photoluminescence : 449nm (in  $CH_2Cl_2$ )  
 Reference : *Organic Electronics* 8 (2007), 735-742.

**LT-N489****4P-NPB****N,N'-di-(1-naphthalenyl)-N,N'-diphenyl-[1,1':4',1'':4'',1''':4''',1''''-quaterphenyl]-4,4''-diamine**

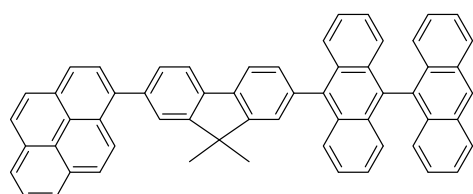
Formula :  $C_{56}H_{40}N_2$   
 Molecular Weight : 740.93 g/mole  
 Thermal Gravimetric Analysis : 410°C (0.5% weight loss)  
 Absorption : 351nm (in  $CH_2Cl_2$ )  
 Photoluminescence : 422nm (in  $CH_2Cl_2$ )  
 Reference : *Adv. Mater.* 2007, 19, 3672-3676

**LT-N490****BUBH-3****4,4'-di[10-(naphthalen-1-yl)anthracen-9-yl]biphenyl**

Formula :  $C_{60}H_{38}$   
 Molecular Weight : 758.94 g/mole  
 Thermal Gravimetric Analysis : 470°C (0.5% weight loss)  
 Absorption : 262nm (in  $CH_2Cl_2$ )  
 Photoluminescence : 420nm (in  $CH_2Cl_2$ )  
 Reference : *Appl. Phys. Lett.* 91, 183504 (2007)

**LT-N4003****DBP****Dibenzo[[f,f']-4,4',7,7'-tetraphenyl]diindeno[1,2,3-cd:1',2',3'-lm]perylene****New**

Formula :  $C_{64}H_{36}$   
 Molecular Weight : 804.97 g/mole  
 Reference : *Appl. Phys. Lett.*, 89, 013502 (2006)  
*Appl. Phys. Lett.*, 100, 044507 (2006)

**LT-N4004****BAnFPye****1-(7-(9,9'-bianthracen-10-yl)-9,9-dimethyl-9H-fluoren-2-yl)pyrene****New**

Formula :  $C_{59}H_{38}$   
 Molecular Weight : 746.93 g/mole  
 Thermal Gravimetric Analysis : 471°C (0.5% weight loss)  
 Absorption : 356nm (in  $CH_2Cl_2$ )  
 Photoluminescence : 452nm (in  $CH_2Cl_2$ )  
 Lumtec patent pending

LT-N4005

DAnF6Pye

1-(7-(9,9'-bianthracen-10-yl)-9,9-dihexyl-9H-fluoren-2-yl)pyrene

**New**

Formula :  $C_{69}H_{58}$

Molecular Weight : 887.20 g/mole

Reference : *Organic Electronics* 10 (2009) 1610–1614

*Lumtec patent pending*

