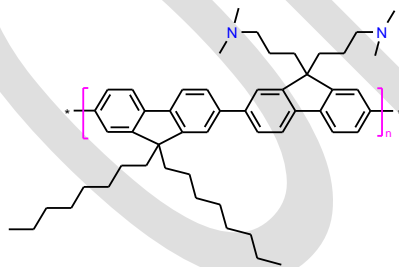


CERTIFICATE OF ANALYSIS

Product: OS0743, PFN-P1
Application: FOR LABORATORY RESEARCH ONLY
Chemical Name: Poly(9,9-bis(3'-(N,N-dimethyl)-propyl-2,7-fluorene)-alt-2,7-(9,9-dioctylfluorene))
CAS #: 673474-74-3



Lot number: YY10260
Appearance: Yellow-greenish solid
NMR analysis: Structure confirmed
Molecular weight (GPC): 35,000 (Mw, PS Standard)
Polydispersity(PDI): 2.5
Solubility: Soluble in CHCl₃, alcohol with assistance of acetic acid
Solution: Recommend 2-mg/10-ml (in methanol/acetic acid~98/2)
for interfacial layer