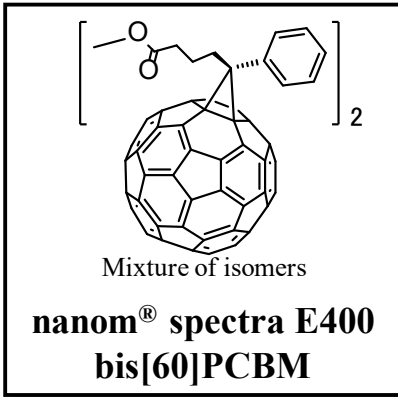


Technical Report

bis[60]PCBM "nanom[®] spectra E400"

フロンティアカーボン(株)は、原材料からの一貫メーカーである強みを活かし、有機薄膜太陽電池用フラーレン誘導体bis[60]PCBMの安定生産に成功いたしました。開放電圧の向上等の報告*1がされている高性能n型半導体nanom[®] spectra E400にご期待下さい。



- **Grade Name** : nanom[®] spectra E400
 - **Common Name** : bis[60]PCBM
 - **CAS Number** : 1048679-01-1
 - **Molecular Formula** : C₈₄H₂₈O₄
 - **Molecular Weight** : 1101.1
 - **Purity** : >98.0A% by HPLC analysis
- *PCBM: Phenyl C61-butyric acid methyl ester

*The data is typical value.

Solubility

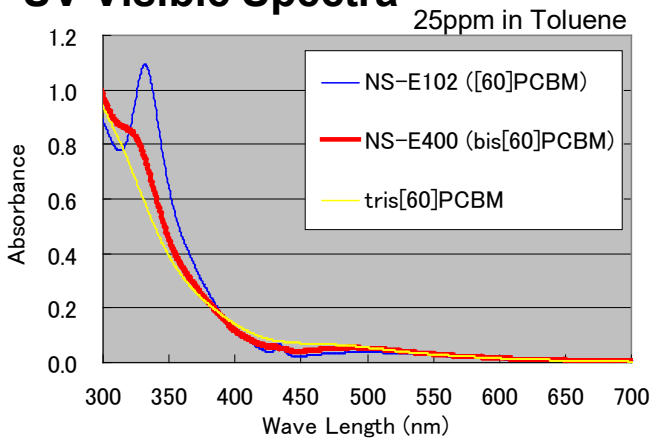
Solvent	NS-E400 (bis[60]PDBM)	NS-E102 ([60]PCBM)
Toluene	> 10wt%	1wt%

1st Reduction Potential

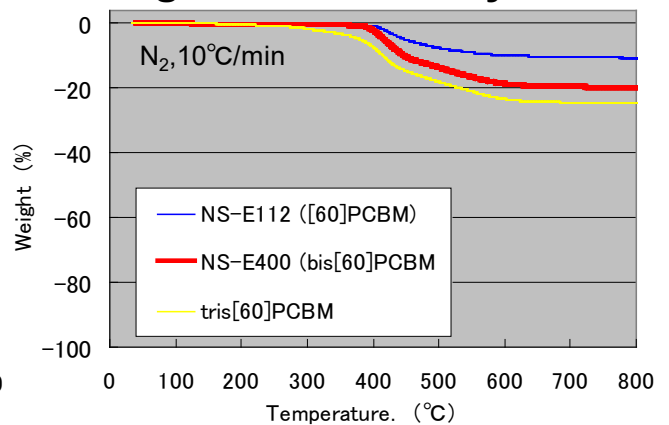
	NS-E400 (bis[60]PDBM)	NS-E102 ([60]PCBM)
E ^{1/2}	-1.19V	-1.09V

Potential in volts vs Fc/Fc⁺ measured with CV in 4:1 o-Dichlorobenzene-Acetonitrile(v/v) containing TBAP(0.1M) as a supporting electrolyte. GC, Pt wire, and Ag/Ag⁺ electrodes, respectively.

UV-Visible Spectra



Thermogravimetric Analysis



*1References

- *Adv.Mater.* **2008**,20(11),2116-2119
- *J.Phys.Chem.C* **2010**,114, 9062-9069

お問い合わせ先 : <http://www.f-carbon.com/contact.html>
 Contact : <http://www.f-carbon.com/eng/contact/index.php>
 URL : <http://www.f-carbon.com>

