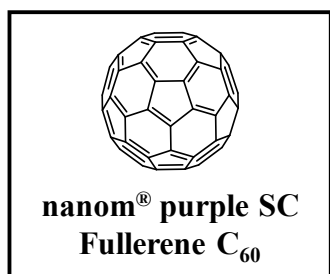


# Technical Report

## SINGLE CRYSTAL Fullerene C<sub>60</sub> "nanom<sup>®</sup> purple SC"

New grade of Fullerene C<sub>60</sub> is now released.

We succeeded in developing 'nanom<sup>®</sup> purple SC', for OPV and other applications. nanom<sup>®</sup> purple SC, its structure is 'single crystal'. Please try **nanom<sup>®</sup> purple SC** !



- **Grade Name** : nanom<sup>®</sup> purple SC
- **Common Name** : Fullerene C<sub>60</sub>
- **CAS Number** : 99785-96-8
- **Molecular Formula** : C<sub>60</sub>

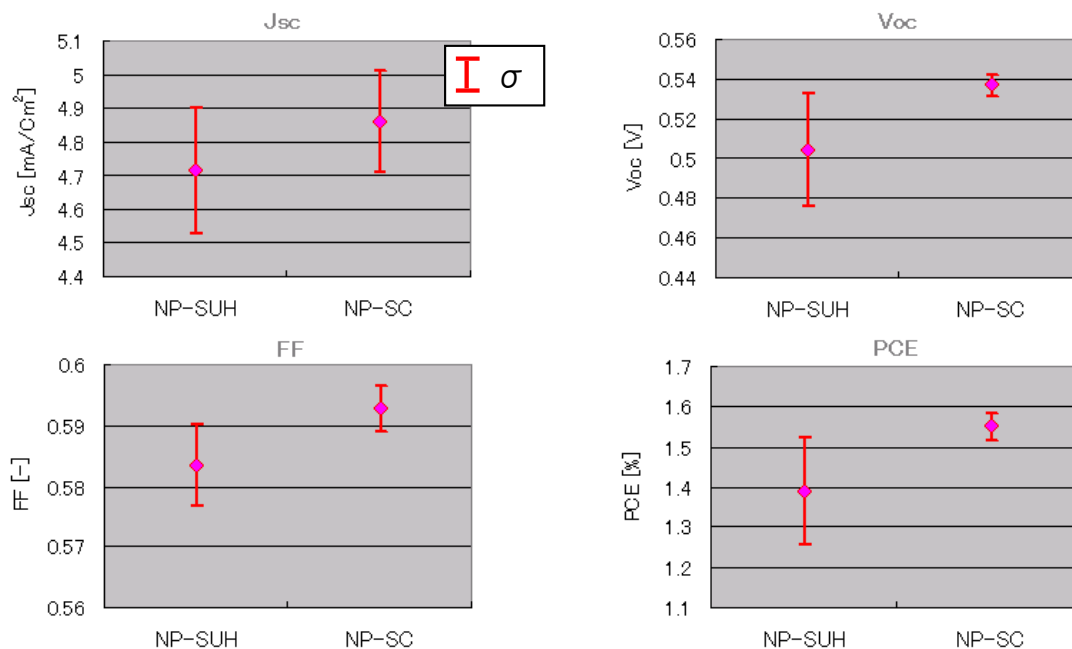
Grades	nanom <sup>®</sup> purple	
	SUH	SC
Process	Sublimed	

HPLC(area%)

C <sub>60</sub>	>99.9	<b>&gt;99.9</b>
C <sub>70</sub>	ND	<b>ND</b>
Others	ND	<b>ND</b>
Solvent(wt%)	ND	<b>ND</b>

All values are typical ones.

### Evaluation Results of NP-SUH & SC for PN-type Organic Photovoltaic



#### Contact:

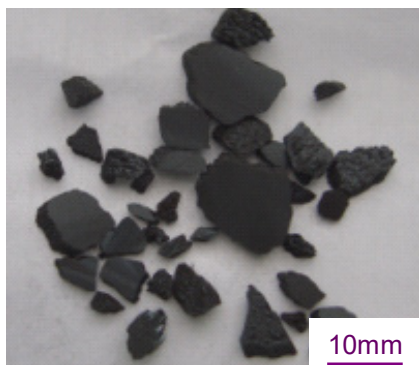
Mr. Osamu KAJIWARA, Sales & Marketing Centre  
FRONTIER CARBON CORPORATION

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E-mail : [6203486@f-carbon.com](mailto:6203486@f-carbon.com)

## Comparison of Two C<sub>60</sub>s' Crystal Structures

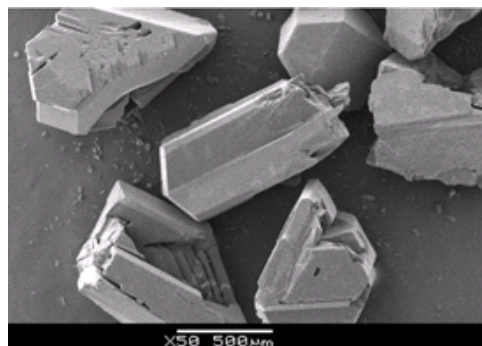
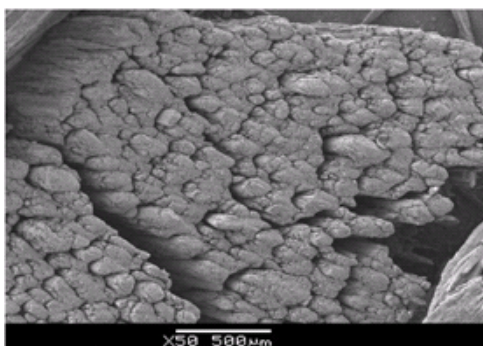
### nanom® purple SUH (polycrystal)



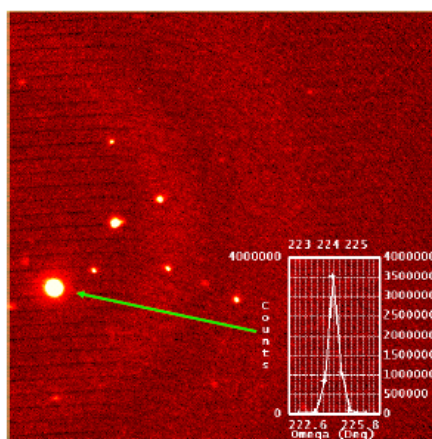
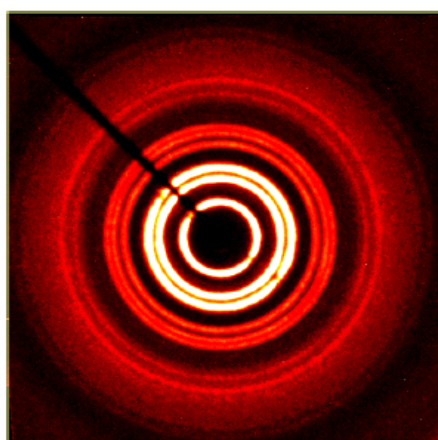
### nanom® purple SC (single crystal)



Photographs of particles



Scanning electron microscope



Single-crystal X-ray diffraction

NP-SUH shows ring-shape diffracted images derived from polycrystal structure.  
On the other hands, NP-SC shows the ones derived from single crystal.

お問い合わせ先 : <http://www.f-carbon.com/contact.html>  
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