

## New Nigrosine Compounds

FAKUMA08-00341-01

### General Data

	Nubian <sup>®</sup> Black TH-807	Nubian <sup>®</sup> Black TH-827	Nubian <sup>®</sup> Black AH-807	Nubian <sup>®</sup> 6807 - 25/40	Nubian <sup>®</sup> 7807 - 25/40	Nubian <sup>®</sup> Black PC-0850
Type	Powder	Powder	Granule (TH-807)	Master batch (TH-807)	Master batch (TH-807)	Powder
Decomp. Temp.* (loss in weight at Decomp. Temp.)	458.3°C (-12.2%)	438.8°C (-3.1%)	458.3°C (-12.2%)	—	—	469.6°C (-6.0%)
Character	High heat resistant	High heat resistant	Low dust To make high conc. master batch	25% or 40% conc. of TH-807 in PA6	25% or 40% conc. of TH-807 in PA66	for PC

\* Decomp. Temp. : Starting point of Decomposition (TG/DTA)

### Recommendation Use

	PA6	PA66	PA46	6T-Nylon	9T-Nylon	PC
Nubian <sup>®</sup> Black TH-807	☆☆	☆☆☆	☆☆☆	☆☆	☆☆	
Nubian <sup>®</sup> Black TH-827	☆☆☆	☆☆		☆☆☆		
Nubian <sup>®</sup> Black PC-0850						☆☆☆

☆☆☆:Recommendation, ☆☆:Suitable, ☆:Possible

The data listed above are evaluation results only. We do not guarantee the measured values as product specification.

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FAKUMA08-00341-02

### Safety Data

	Nubian <sup>®</sup> Black TH-807	Competitor A	Competitor B	Competitor C	Competitor D
Aniline (%)	< 0.1	< 0.1	< 0.1	0.311	0.36
Nitrobenzene (%)	below detection limit	below detection limit	0.079	0.322	0.04
Azobenzene (%)	below detection limit	below detection limit	below detection limit	below detection limit	0.05
Diphenylamine (%)	< 0.1	1.274	0.846	1.563	2.00
Total chloride (%)	< 0.05	3.9	3.06	1.06	1.06
Cr (ppm)	< 2.0	336	90.7	85.2	40.7
Cu (ppm)	< 2.0	89.8	21.8	64	52.1
Hg (ppm)	< 0.01	< 0.01	0.23	< 0.01	< 0.01

Target value of harmful substances → The content of Aniline, Diphenylamine is below 0.1%. (in progress)

The content of Nitrobenzene, Azobenzene is below detection limit. (in progress)

← for GHS

These target values were attained in Lab. and pilot plant.

The samples of Nubian<sup>®</sup> Black TH-807 will be available in 2009.

Content of heavy metal (Cr, Hg, etc.) is also very low. ← for WEEE, RoHS, ELV, etc.

**ORIENT keeps up with REACH.**

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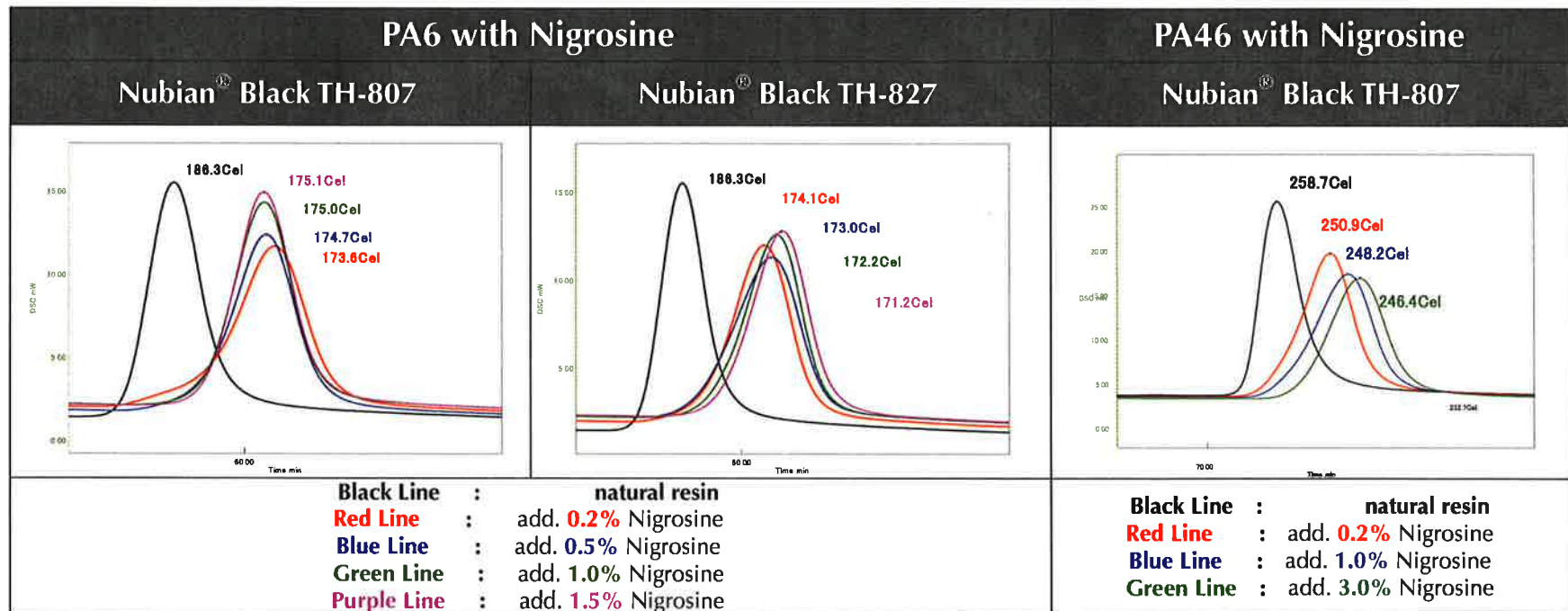
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**New Nigrosine Compounds**

FAKUMA08-00341-03

**DSC data**



Nigrosine has **“Crystalline retardation effect”**

Decreasing effect of crystal nuclearization, crystalline temp., crystalline speed in plastics.



Improvement in appearances of molded parts., Neutralize effect on the nucleus of filler materials.,

Lower mold temperature by injection., The skin layer can be formed., It is favorable for welding.

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