



大恭化學工業股份有限公司

TAH KONG CHEMICAL INDUSTRIAL CORP.

7TH FLOOR 778, PA TE ROAD, SEC.4,

TAIPEI, REPUBLIC OF CHINA

台北市八德路四段七七八號

新矽谷大樓七樓

TEL:(02)7859081-7

TLX:25217 TKCPIGMENT

CABLE:TKCHEMIAL TAIPEI

FAX:(02)7850907

## UV Absorber Master Batch

**Introduction:** UV Absorber Master Batch can absorb the ultraviolet of sunlight and transform it to heat energy to reduce the damage from ultraviolet on plastic. It has excellent dispersion and processability.

### 1. Description:

- a. **Item Code:** TPA NC 6E519
- b. **Appearance:** Master Batch
- c. **Composition:** Ultraviolet Absorber & Carrier

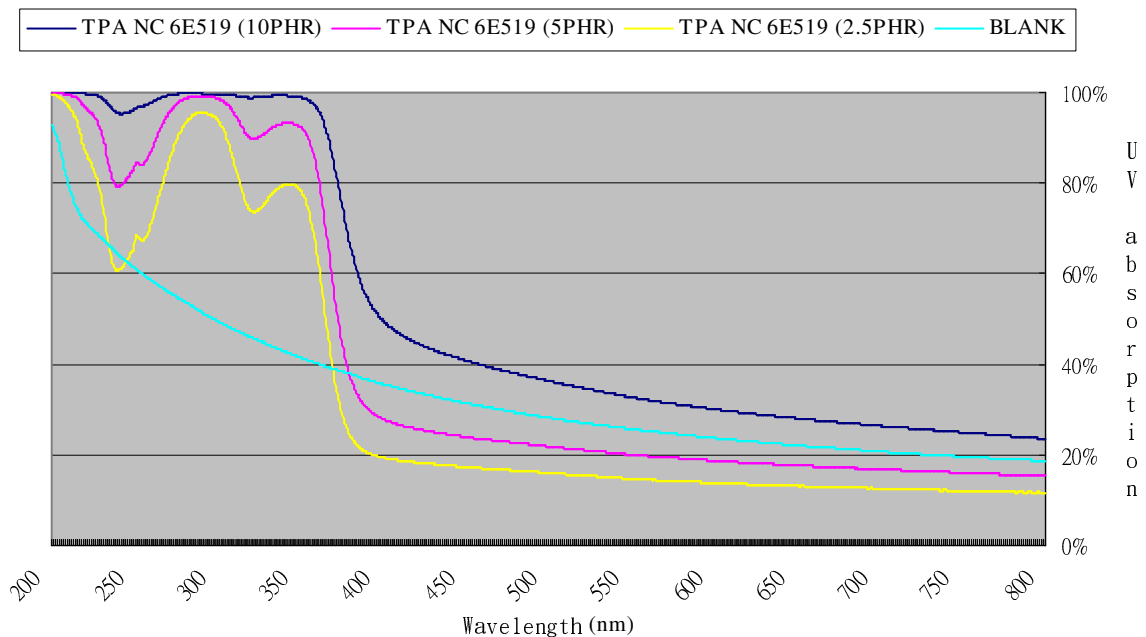
### 2. Application:

- a. PE and PP products.
- b. Suitable for Extruder, Kneader, Bambury, Calender, Blown Film machine.

### 3. Characteristics:

- a. Easy metering and processability
- b. Recommended dosage: 10PHR

### 4. Test Result of Weather Resistance:



**Remark:** put the tested sheet in oven and QUV to analyze the ratio of ultraviolet absorption of each wavelength.



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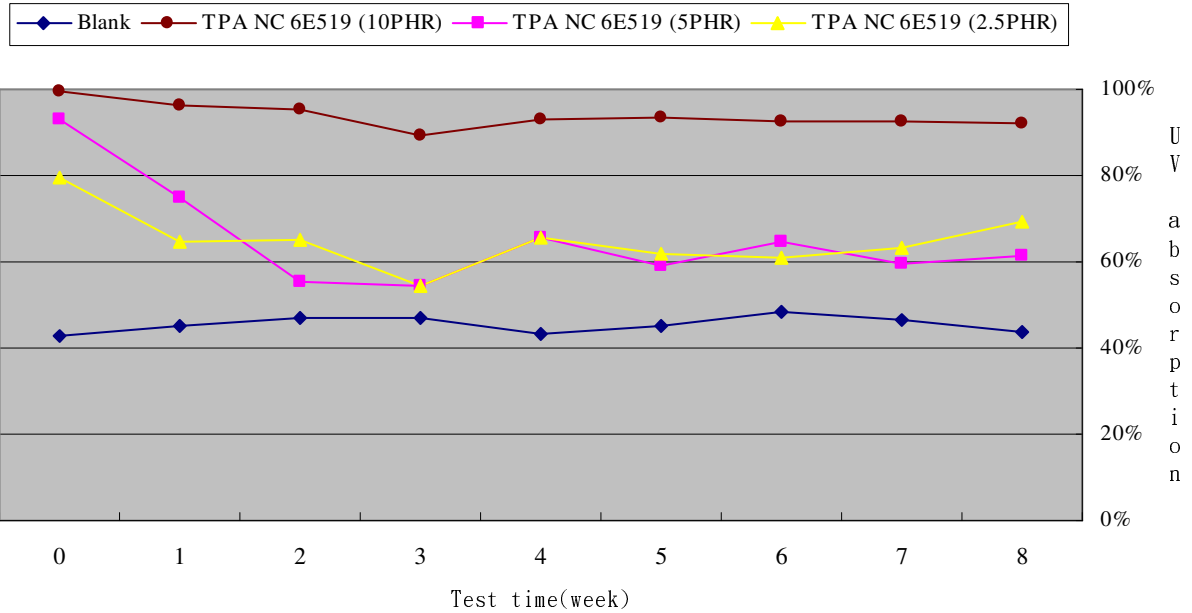
新矽谷大樓七樓

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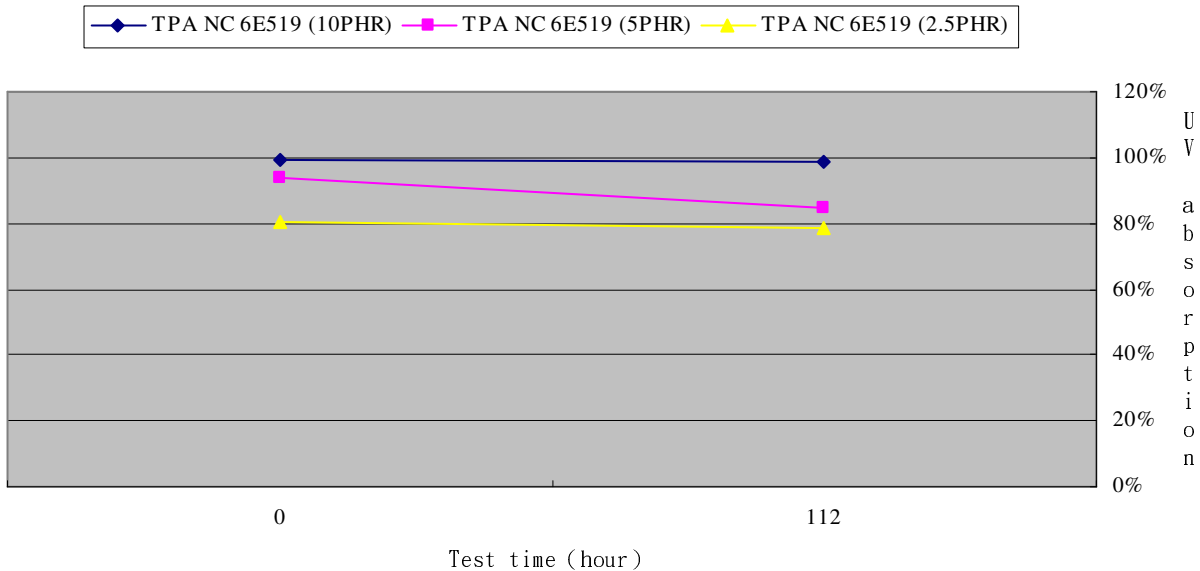
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**Remark: put the tested sheet (thickness: 0.03mm) in oven (60°C) and record the ratio of ultraviolet absorption of every week.**



**Remark: put the tested sheet (thickness: 0.03mm) in QUV irradiation, the blown film with addition of 10PHR TPA NC 6E519 can still be maintained more than 90%, high performance UV Absorber Master Batch.**



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## Light Resistant Master Batch

**Introduction:** Our light resistant master batch can catch the free radicals which cause degrading on plastic and lengthen the life of plastic. It has excellent dispersion and processability.

### 1. Description:

- a. **Item Code: TPA NC 6E520**
- b. **Appearance: Master Batch**
- c. **Composition: HALS & Carrier**

### 2. Application:

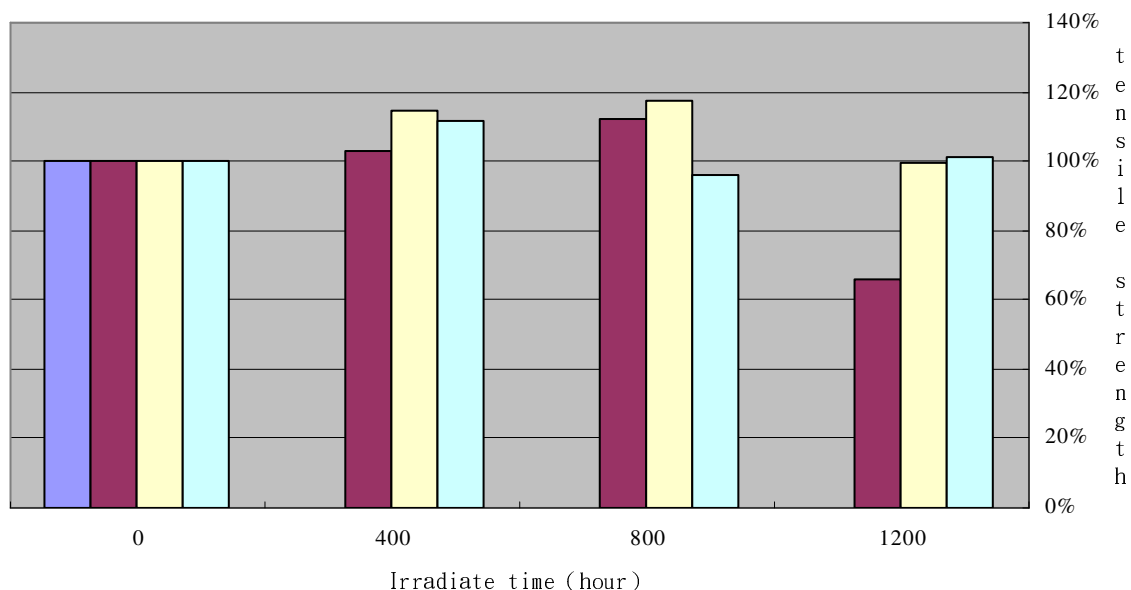
- a. **PE and PP products.**
- b. **Suitable for Extruder, Kneader, Bambury, Calender, Blown Film machine.**

### 3. Characteristics:

- a. **Easy metering and processability.**
- b. **Recommended dosage: 10PHR**

### 4. Test Result of Weather Resistance:

■ Blank 
 ■ TPA NC 6E520 (2.5PHR) 
 ■ TPA NC 6E520 (5PHR) 
 ■ TPA NC 6E520 (10PHR)





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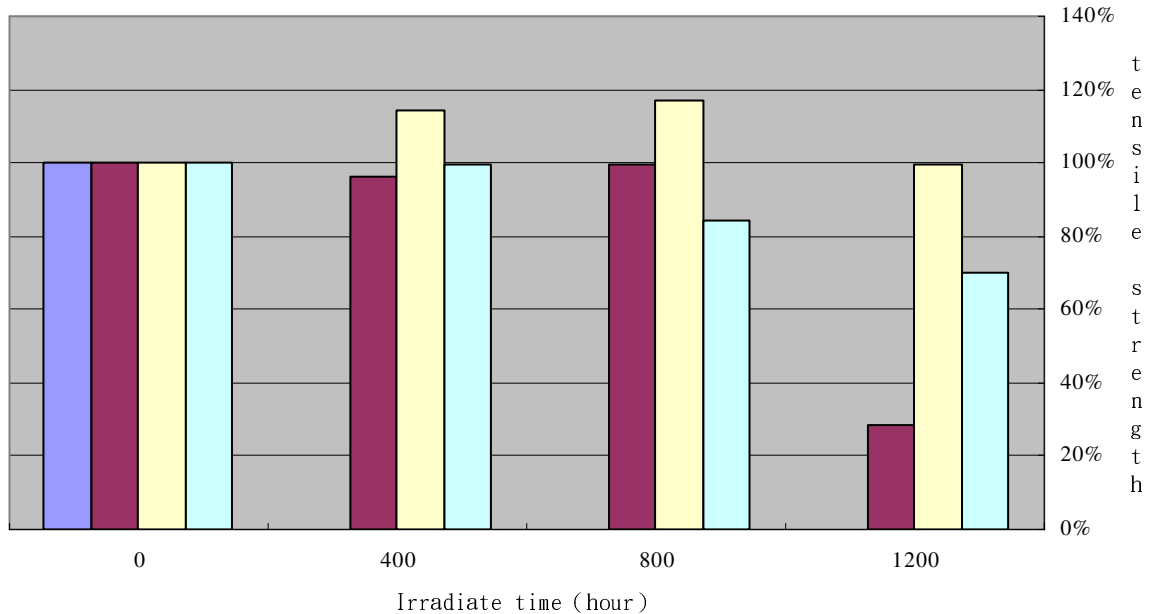
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Blank TPA NC 6E520 (2.5PHR) TPA NC 6E520 (5PHR) TPA NC 6E520 (10PHR)



### Remarks:

1. Tested film (thickness 0.05 mm) being irradiated by Xenon arc lamp (ASTM G26A), then cut the tested film into size of 1x10 cm<sup>2</sup> for elongation test.
2. Blank tested film being irradiated by xenon arc lamp and it will become broken to discontinue the afterward elongation test.

After 1200hrs light resistance test, analyze the properties of the blown film with addition of 5PHR TPA NC 6E520. The tensile strength can be maintained above 100% and elongation can be maintained above 80%. The reading data show there is not much damage to its original properties. Our TPA NC 6E520 can reduce the damage from sunlight on plastics.



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## Light Resistant Master Batch (for Acid Environment)

**Introduction:** Our light resistant master batch after special treatment can maintain the function of HALS to catch free radicals under acid environment. It is applicable for the production with existence of acid material to improve the weather resistance. It has excellent dispersion and processability.

### 1. Description:

- a. **Item Code: TPA NC 6E521**
- b. **Appearance: Master Batch**
- c. **Composition: Acid Resistant HALS & Carrier**

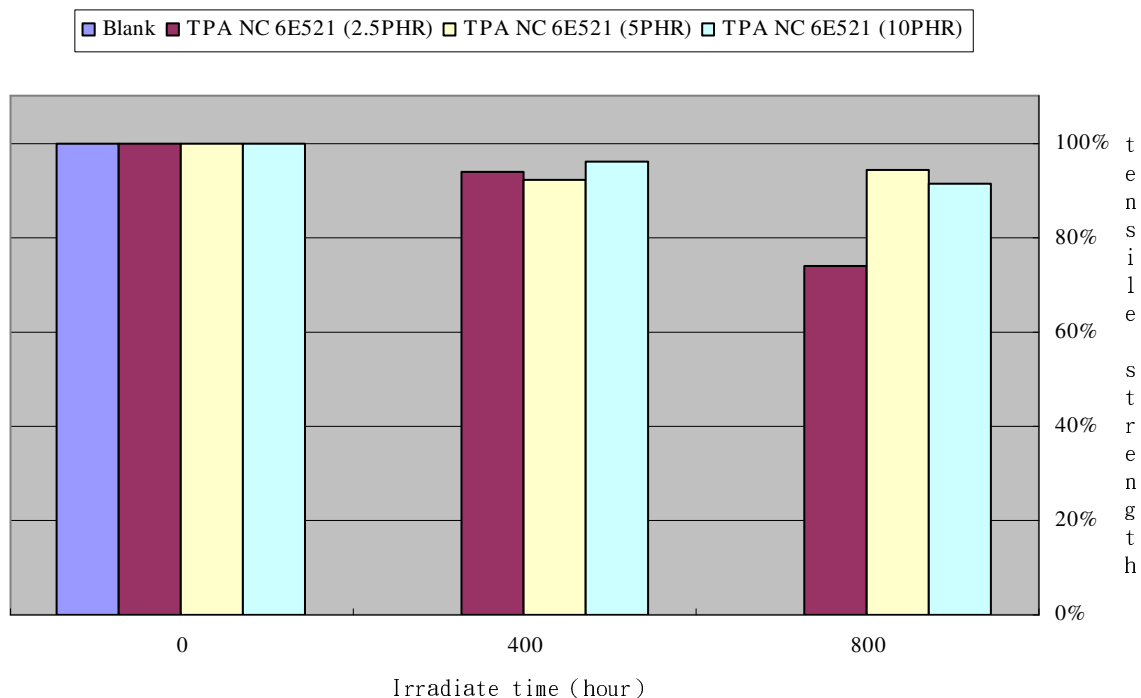
### 2. Application:

- a. **PE and PP products.**
- b. **Suitable for Extruder, Kneader, Bambury, Calender, Blown Film machine.**

### 3. Characteristics:

- a. **Easy metering and processability.**
- b. **Recommended dosage: 5PHR**

### 4. Test Result of Weather Resistance:





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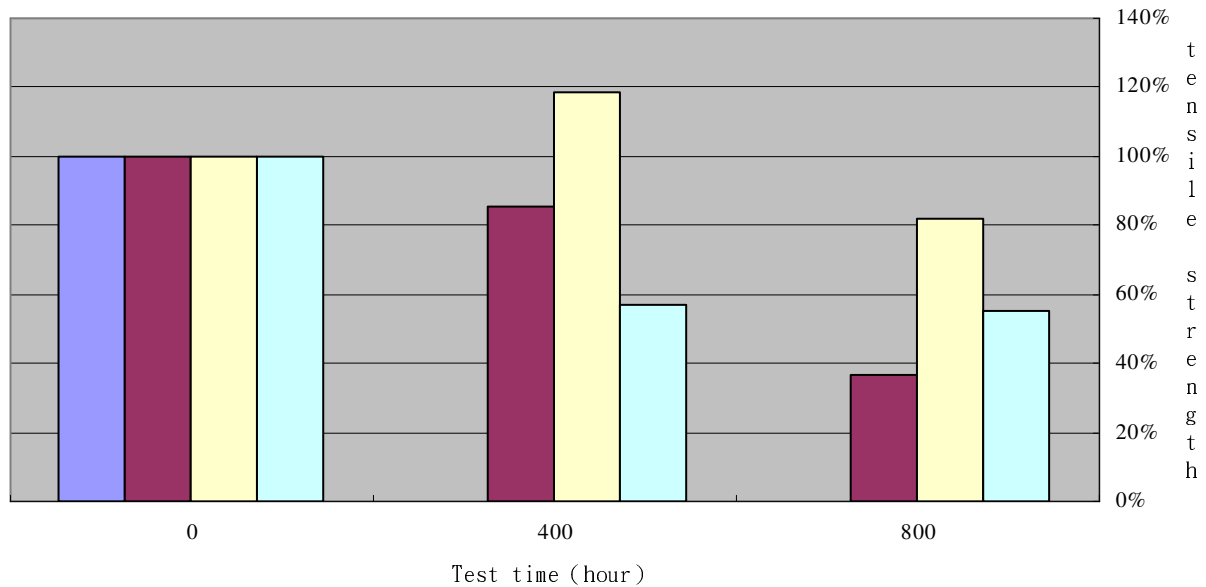
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Blank TPA NC 6E521 (2.5PHR) TPA NC 6E521 (5PHR) TPA NC 6E521 (10PHR)



## Remarks:

1. Tested film (thickness 0.05 mm) being dipped in sulfurous acid and irradiated by xenon arc lamp (ASTM G26A), then cut the tested film into size of 1x10 cm<sup>2</sup> for elongation test.
2. Blank tested film being irradiated by xenon arc lamp and it will become broken to discontinue the afterward elongation test.

After 800hrs light resistance test, analyze the properties of the blown film with addition of 5PHR TPA NC 6E520. The tensile strength can be maintained above 90% and Elongation can be maintained above 80%. The reading data show there is not much damage to its original properties and our TPA NC 6E521 can be resistant to both light and acid. This item is suitable for application in the scope of agriculture.