

# HANGZHOU HANHAO CHEMICAL CO., LTD

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## TECHNICAL DATA SHEET

### Product Description:

Color Index: Solvent Red 111  
C.I.No. 60505  
CAS No. 82-38-2  
Chemical Family Anthraquinone Series

### Technical Properties:

The product is red oil solvent dye with yellow light. It is of good heat resistance, light fastness and bright color.

**Application:** (“☆” Superior, “○” Applicable, “△” Not recommend

| PS | HIPS | ABS | PC | RPVC | PMMA | SAN | AS | PA6 | PET |
|----|------|-----|----|------|------|-----|----|-----|-----|
| ☆  | ☆    | ☆   | ☆  | ○    | ☆    | ○   | ○  | ○   | ☆   |

Also used for resin, wax, ink and fibre.

### Physical Properties

| Density(g/cm3) | Melting Point(°C) | Light fastness (in PS) | Recommended Dosage |                |
|----------------|-------------------|------------------------|--------------------|----------------|
|                |                   |                        | Transparent        | Nontransparent |
| 0.36           | 169-172           | 6-7                    | 0.025              | 0.05           |

**Light Fastness:** Consist of 1<sup>st</sup> to 8<sup>th</sup> grade, and the 8<sup>th</sup> grade is superior, the 1<sup>st</sup> grade is bad.

**The heat resistance in PS can reach to 300℃**

Degree of pigmentation: 0.05% dyes+0.1%titanium dioxide R

**Solvent red 111 solubility in organic solvent at 20℃(g/l)**

| Acetone | Butyl Acetate | Methylbenzene | Dichloromethane | Ethylalcohol |
|---------|---------------|---------------|-----------------|--------------|
| 4       | 4             | 7             | 32              | 2            |

**Note:** The above information is provided as guidelines for your reference only.  
The accurate effects should base on the test results in laboratory.