



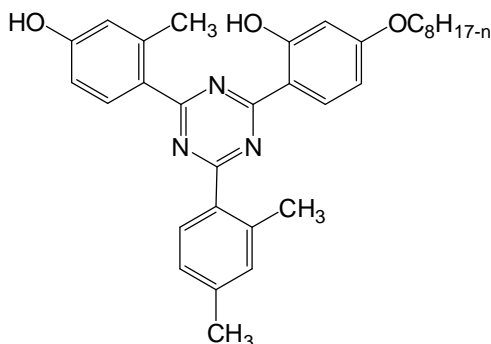
# Tiangang<sup>®</sup> HS-630

## Low Volatile Hydroxyphenyl-Triazine UV Absorber

**Chemical name** 2-[4, 6-Bis(2, 4-dimethylphenyl)-1, 3, 5-triazin-2-yl]-5-(octyloxy) phenol

**CAS number** 2725-22-6

**Structure**

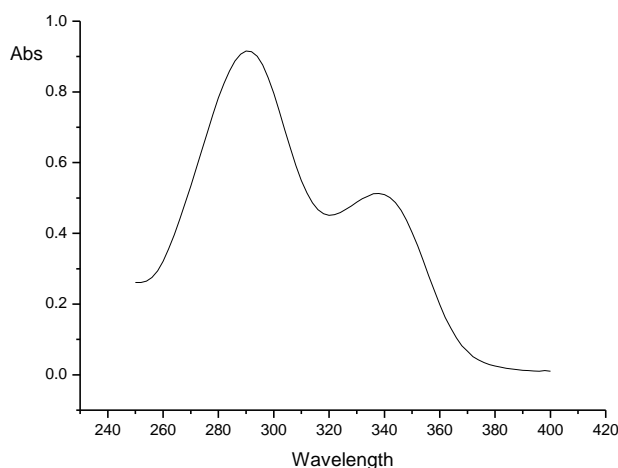


### Description

Tiangang<sup>®</sup> HS-630 is a highly effective hydroxyphenyl-triazine UV absorber, which features both highly effective UV absorption, and low volatility. Compared to conventional bezotrazole UV absorbers, it gives polymers better protection against UV light. It is compatible with a range of polymers, co-additives and resin compositions, including polycarbonates and polyesters. It is also suitable for application in various polymer blends and alloys, such as PC/ABS, PC/PBT, PPE/IPE, PPE/PA and copolymers as well as in reinforced, filled and/or flame retarded compounds.

0.2 - 6% by weight can be readily incorporated into the polymer by using conventional techniques, e.g., powder, solution, or melt blending. When used with other Tiangang HALS products often a synergistic performance is observed.

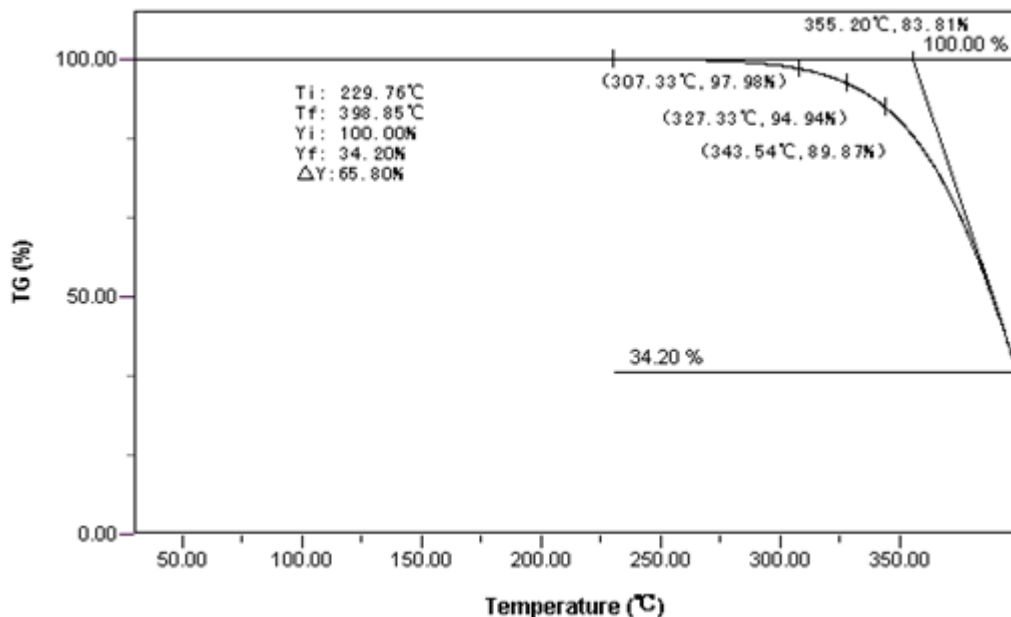
### Absorption Spectrum



### Typical properties

|                                 |                     |     |     |     |
|---------------------------------|---------------------|-----|-----|-----|
|                                 | Weight loss         | 2%  | 5%  | 10% |
| Tiangang <sup>®</sup><br>HS-630 | Temperature<br>(°C) | 307 | 327 | 343 |

**TGA Spectrum**



**Typical properties**

|                  | Appearance          | Molecular weight | Specific gravity, g/cm <sup>3</sup> @ 25°C | Melting range °C |
|------------------|---------------------|------------------|--|------------------|
| Tiangang® HS-630 | Light yellow powder | 509              | 1.15                                       | 88.0 - 91.0      |

**FDA STATUS**

|                  |  |
|------------------|--|
| Tiangang® HS-630 | <p>This substance is for use only:</p> <ol style="list-style-type: none"> <li>At levels not to exceed 0.3% by weight of olefin polymers complying with Section 177.1520(c) of this chapter in contact with food types I, II, IV-B, VI, VII-B, and VIII in Section 176.170(c) chapter, table 1, under conditions of use D through G as described in Section 176.170(c), table 2, of this chapter.</li> <li>At levels not to exceed 0.1% by weight of polypropylene complying with Section 177.1520(c) of this chapter, items 1.1a, 1.2, and 1.3 in contact with food under conditions of use A through H as described in Section 176.170(c), table 2, of this chapter.</li> <li>At levels not to exceed 0.04% by weight of polyethylene and olefin copolymers complying with Section 177.1520(c) of this chapter, items 2.1, 2.2, 2.3, 3.1a, 3.1b, 3.1c, 3.2a, and 3.2b having a minimum density of 0.94 gram per cubic centimeter, in contact with food under conditions of use A through H as described in Section 176.170, table 2, of this chapter provided that the finished articles used in contact with fatty food types III, IV-A, V, VII-A and IX as described in table 1 of Section 176.170(c) of this chapter hold a minimum of 2 gallons (7.6 liters) of food.</li> <li>At levels not to exceed 0.04% by weight of ethylene copolymers complying with Section 177.1520(c) of this chapter, items 3.1a, 3.1b, 3.1c, 3.2a and 3.2b, having a density of less than 0.94 gram per cubic centimeter, in contact with food under conditions of use B through H, as described in Section 176.170(c), table 2, of this chapter provided that the finished articles used in contact with fatty food types III, IV-A, V, VII-A, and IX hold a minimum of 5 gallons (18.9 liters) of food.</li> <li>At levels not to exceed 0.04% by weight of polyethylene having a density of less than 0.94 gram per cubic centimeter, and olefin polymers complying with Section 177.1520(c) of this chapter, items 2.1, 2.2, 2.3, 3.3a, 3.3b, 3.4, 3.5, 3.6, 4, 5, and 6 in contact with food under conditions of use D through G as described in Section 176.170(c) of this chapter, table 2, provided that the finished articles used in contact with fatty food types III, IV-A, V, VII-A, and IX hold a minimum of 5 gallons (18.9 liters) of food.</li> </ol> |
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**Safety & handling**

|                     |   |
|---------------------|---|
| Tiangang®<br>HS-630 | The use of proper protective equipment is recommended. Excess exposure to the product should be avoided. Wash thoroughly after handling. Store the product in a cool, dry, well-ventilated area away from incompatible materials. |
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**Disclaimer**

*The information supplied is presented in good faith and has been derived from sources believed to be reliable. Since conditions of use are beyond our control, all risks are assumed by the user. No representation is expressed or implied, and nothing herein shall be construed as permission or recommendation to practice a patented invention without license.*