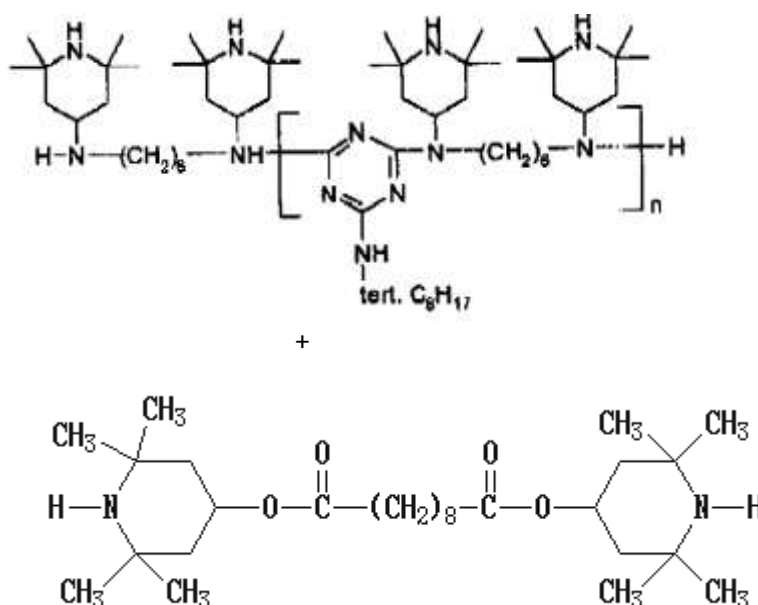


## Technical Data Sheet

**Product name:** UV-791  
**Chemical name:** Half and half mixture of UV-770 and UV-944  
**Synonym:** tinuvin@ 791  
**CAS No:** UV-944: 71878-19-8 and UV-770: 52829-07-9  
**Chemical Structure:**



**Quality norm:** technical grade

**Specification:**

|                     |   |                                  |
|---------------------|---|----------------------------------|
| Appearance          | : | White with light yellow granular |
| Melting point (°C)  | : | 110 ~ 130                        |
| Volatile matter (%) | : | 1.0 max.                         |
| Ash (%)             | : | 0.1 max.                         |
| Transmittance (%)   |   |                                  |
| 425 nm              | : | 90 min.                          |
| 500 nm              | : | 93 min.                          |

**Packing:**

25kg net cartons on pallets or as required

**Characterization**

UV- 791 is a synergistic mixture of UV- 944 and UV-770. It is an excellent UV stabilizer especially for PP thick sections, which offers excellent surface protection. It also shows high stabilization efficiency in PP tapes.

## Application

UV-791 areas of application are PP, PP/EPDM and PP/PE/EPDM blends (TPO's).

UV-791 is an excellent UV stabilizer for thick sections, e.g. automotive bumpers, fascia, garden furniture etc.

The synergism between the high and low molecular weight HALS components of UV-791 guarantees maximum protection for the polymer against degradation from UV radiation and long term heat exposure.

## Physical Properties

|                          |                             |
|--------------------------|-----------------------------|
| Melting Range            | ca. 55 °C start             |
| Flashpoint               | > 150 °C                    |
| Relative Density (20 °C) | 1.0 - 1.2 g/cm <sup>3</sup> |
| Vapor Pressure (20 °C)   | <0.01 Pa                    |

## Uses:

|                 |                        |          |
|-----------------|------------------------|----------|
| Thick Sections* | UV Satbilization of PP | 0.1-0.8% |
| Tapes           | UV Stabilization of PP | 0.1-0.8% |

\* The presence of a UV-absorber (e.g. UV-326/327/328 or UV-531) is recommended in unpigmented or slightly pigmented articles or to improve the light fastness of certain organic pigments.

## Handling & Safety

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation. Avoid contact with eyes. Prevent contamination of the environment. Avoid dust formation and ignition sources.

For more detailed information please refer to the material safety data sheet.

## Registration

The registration status for TINUVIN 791 is derived from single components. The components are registered in:

- Australia
- Canada
- China
- Europe
- Japan
- Korea
- Philippines
- USA.

## IMPORTANT:

The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled or lab work and must be confirmed by Buyer by testing for the intended conditions of use. The product(s) has (have) not been tested for, and is (are) therefore not recommended for, uses for which

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prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.

Please note that products may differ from country to country. If you have any queries, please kindly contact us.