



THE HANSON GROUP. LLC  
GOOD PEOPLE, GREAT SCIENCE

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# TECHNICAL DATA SHEET

## UV-622

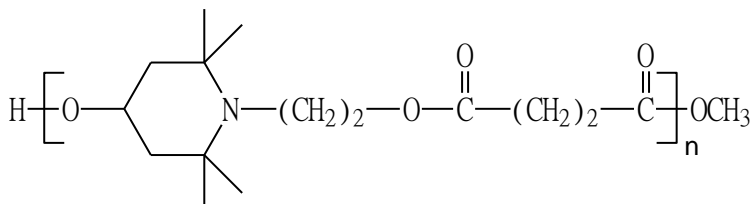
Ultraviolet light stabilizer for coating, film and tape.

### 1. General

UV-622 is a low-dust, polymeric hindered amine light stabilizer who provides outstanding light stability to many polymers and, in addition, gives long-term heat stability to polymers by radical trapping mechanism similar to that of hinder phenol. UV-622 produces virtually no effect on initial substrate color.

### 2. Properties

Structure :



CAS Name : 4-Hydroxy-2,2,6,6-tetramethyl-1-piperidine-ethanol polymer with dimethyl succinate  
CAS No. : 65447-77-0  
Molecular Weight : > 2,500

### 3. Physical Data

Appearance : White crystalline powder  
Odor : Faint  
Softening range : 65 - 80 °C  
Specific gravity : 1.20 @20 °C  
Vapor pressure : < 0.01 Pa @20 °C

### 4. Solubility

(g in 100 ml solvent)

Acetone : 2  
Dichloromethane : >60  
Hexane : 0.01  
Methanol : 0.1

Styrene	:	10
Acetic acid ethylester	:	5
Water	:	Nil

## 5. Specification

Appearance	:	Low dust white crystal
Molecular weight	:	2,500 min.
Softening point	:	55 °C min
Volatiles	:	0.5% max.
Ash	:	0.1% max.

## 6. Application

UV-622 is suitable for those applications which demand particularly high stability for such polymers as PP, HDPE, LDPE, LLDPE, ABS and PVC. It is FDA-cleared for use in food packaging applications including polyolefin and PVA with maximum concentration of 0.3%.

In contrast to UV absorbers, UV-622 effectiveness is independent of the polymer's thickness. For this reason, UV-622 is particularly effective in articles with high specific surface such as coating, fiber, films and tapes. A percentage of 0.2% - 0.5% of UV-622 is recommended for the purpose of light protection. If desired, it can be incorporated in monomer before polymerization, often with improvement of resin quality. Light stability of polymer can be further enhanced by use of UV absorbers or certain antioxidants.

## 7. Storage

Must be stored in closed containers in dark dry conditions.

## 8. Packaging

25 kg net/fiber drum -

## 9. HS Code

2922 4980