

# Technical Data Sheet

## LeSorb<sup>®</sup> UV-770

### Application & Recommend

- ABS
- PP & PE
- EPDM
- PA & Nylon
- TPE , TPV & TPU
- PS

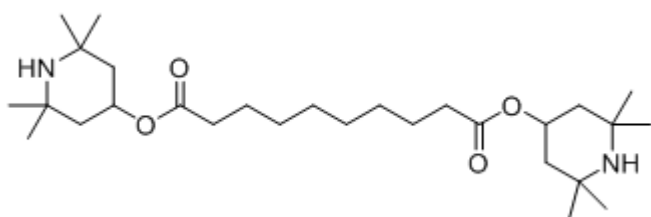
LeSorb<sup>®</sup> UV-770 is a hindered amine light stabilizer, recommended to be used in polypropylene; impact modified PP (TPO), EPDM, polystyrene, IPS, ABS, SAN, ASA and polyurethanes, and is also effective in polyamides and polyacetals.

**Chemical name :** Bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

**Formula :** C<sub>28</sub>H<sub>52</sub>O<sub>4</sub>N<sub>2</sub>

**CAS NO.:** 52829-07-9

### Structure



### Physical Properties

Item	Standard
Appearance	White Crystalline Powder Or Granules
Molecular Weight	481
Melting Range	80-85 °C
Relative Density	1.05 g/cm <sup>3</sup>

Ash content	$\leq 0.1\%$	
Loss on drying	$\leq 0.5\%$	
Light transmittance	425nm	$\geq 98\%$
	500nm	$\geq 99\%$

**Volatility Pure substance; TGA, heating rate 20 °C /min in air**

Weight Loss (%)	Temperature °C
0.7	150
0.7	175
1.0	200
2.1	225
7.2	250
19.8	275

**Solubility At 20 °C (g/100ml solvent)**

Solvent	Solubility
Acetone	19%
Chloroform	45%
Ethanol	-
Ethyl Acetate	24%
n-Hexane	5%
Methanol	38%
Methylene Chloride	56%
Toluene	-
Water	<0.01

## **Dosage**

- ABS : 0.3-0.5wt% based on polymer weight
- PS : 0.2-0.3wt% based on polymer weight
- HIPS : 0.2-0.3wt% based on polymer weight
- High density polyethylene : 0.2-0.3wt% based on polymer weight
- Polyamide : 0.2-0.3wt% based on polymer weight
- Polyester : 0.2-0.3wt% based on polymer weight

## **Toxicity & Safety**

LeSorb<sup>®</sup> UV-770 is not intended for use in products for which prolonged contact with mucous membranes or abraded skin, or implantation within the human body is specially intended, unless the finished product has been tested in accordance with the Food and Drug Administration and/or other applicable safety testing requirements. Because of wide range of such potential uses, Nanjing Lepuz Chemical Co., Ltd is not able to recommend this material as safe and effective for such uses and assumes no liability for any such uses.

## **Storage**

LeSorb<sup>®</sup> UV-770 may be stored up to two years in a sealed container. Containers should be stored in a cool, dry area. Extended storage at elevated temperatures or exposure to direct heat or sunlight could reduce product life. Keep containers sealed when not use.

## **Handling**

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Protect skin. Prevent contamination of the environment. Avoid dust formation and ignition sources.

## **Packing**

LeSorb<sup>®</sup> UV-770 is available in a 25kg(55.1 pound) carton box, net weight, with an inner PE liner.