



# Rhinossorb® 944

## Oligomeric hindered amine light stabilizer (HALS)

**Characterization** Rhinossorb 944 is a high molecular weight hindered amine light stabilizer

(HALS). It shows excellent compatibility, good resistance to extraction and low

volatility.

Chemical name Poly[[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diyl][(2,2,6,6-

tetramethyl-4-piperidinyl)imino]-1,6-hexanediyl[(2,2,6,6-tetramethyl-4-

piperidinyl)imino]])

**CAS number** 71878-19-8

70624-18-9 (US)

Structure Rhinossorb 944

Molecular weight Mn = 2000-3100 g/mol

**Applications** Rhinossorb 944 areas of application include polyolefins (PP, PE), olefin

copolymers such as EVA as well as blends of polypropylene with

elastomers.

In addition in certain instances Rhinossorb 944 is highly effective in polyacetals, polyamides, polyurethanes, flexible and rigid PVC, as well as PVC

blends, and in certain styrenic elastomer and adhesive specialty

applications.

Features/benefits Rhinossorb 944 imparts excellent light stability to thin articles, particularly

fibers and films. In thick cross sections it is specifically suitable for

polyethylene articles.

Rhinossorb 944 is highly effective as a long-term thermal stabilizer in thinand

thick articles and shows good extraction resistance.





### **TECHNICAL DATA SHEET**

P	rc	hc	u	ct	fο	rm	s
		Ju	ч	v			•

**Guidelines for use** 

Code: Rhinossorb 944 FDL white Appearance: to slightly yellowish

Rhinossorb 944 LD white to slightly yellowishlow dust powder

granules

Thick sections\*: UV Stabilization of HDPE, 0.05-1.0 %

LLDPE, LDPE and PP

Films\*: UV Stabilization of LLDPE 0.10 - 1.0%

and LDPE

Tapes: UV Stabilization of PP 0.10 - 0.8%

and HDPE

Fibers: UV Stabilization of PP 0.10 - 1.4%

#### **Physical properties**

Melting range	100-135 °C				
Flashpoint (ASTM D-93)	>150 °C				
Specific gravity (20 °C)	1.01 g/cm <sup>3</sup>				
Vapor pressure (20 °C)	~ 1.0 E-6 Pa				
Bulk density					
DI. LOMATRI	E00 040 //				

Rhinossorb 944 FDL 560-610 g/l Rhinossorb 944 LD 450-550 g/l

Solubility (20 °C)	% w/w
Acetone	>50
Chloroform	>30
Ethanol	< 0.1
Ethyl acetate	>50
n-Hexane	41
Methanol	3
Dichloromethane	>50
Toluene	>50
Water	< 0.01

#### Volatility Pure substance; TGA-data, Weight loss % heating rate 20 °C/min in air Temperature °C 0 250 0.2 275 1.0 300

3.7 325 350 9.4

### **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 dust formation and ignition sources.

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

<sup>\*</sup> The presence of a UV absorber (e.g. Rhinuva® 326/328 or Rhinossorb 622) is recommended for unpigmented or slightly pigmented articles or to improve the light fastness of certain organic pigments.





Note

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