

LOWILITE[™] 77 UV stabilizer

Hindered Amine Light Stabilizer

Description

LOWILITE[™] 77 UV stabilizer is a highly effective light stabilizer belonging to the Hindered Amine Light Stabilizer (HALS) family of stabilizers

Chemical Name

Decanedioic acid, bis(2,2,6,6-tetramethyl-4-piperidinyl) ester

Synonym

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

CAS-Nr.

52829-07-9

EINECS-Nr.

258-207-9

Formula

LOWILITE[™] 77 UV stabilizer



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Typical physical properties of LOWILITE[™] 77 UV stabilizer

| Appearance | Slightly yellow micropellets | |
|-----------------------------------|------------------------------|--|
| Melting range [°C] | 80 – 85 | |
| Molecular weight [g/mol] | 481 | |
| Bulk density [kg/m ³] | 560 | |

Solubility (g/100g solvent) @ 20°C

| n-Hexane | 4 | Methanol | 51 |
|------------|----|---------------|------|
| Acetone | 20 | Ethyl Acetate | 20 |
| Chloroform | 90 | Water | <0.1 |
| Toluene | 50 | | |

Thermogravimetric Analysis (10 mg @ 10 K/minute under N₂)

| Weight Loss [%] | 5 | 10 | 25 |
|------------------|-----|-----|-----|
| Temperature [°C] | 220 | 240 | 260 |

Application

The effectiveness of **LOWILITE[™] 77 UV stabilizer** as a stabilizer is superior to classic products such as UVAs and nickelcontaining stabilizers. **LOWILITE[™] 77 UV stabilizer** is very suitable, alone or in combination with oligemeric HALS, for the UV stabilization of tapes and thick items such as car bumpers and garden furniture. **LOWILITE[™] 77 UV stabilizer** is **recommended** for polymers such as polyolefins, PS, HIPS, ABS, SAN and ASA. It is also effective in polyurethanes, polyamides and polyacetals.

Food Contact

For details please contact SI Group Regulatory Affairs.

Handling and Storage

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. Unless otherwise stated, the shelf life of the product is 4 years when it is properly stored.

For additional handling and toxicological information consult the SI Group Material Safety Data Sheet.

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