

PowerStab™ 944

New Materials Creating New Performances

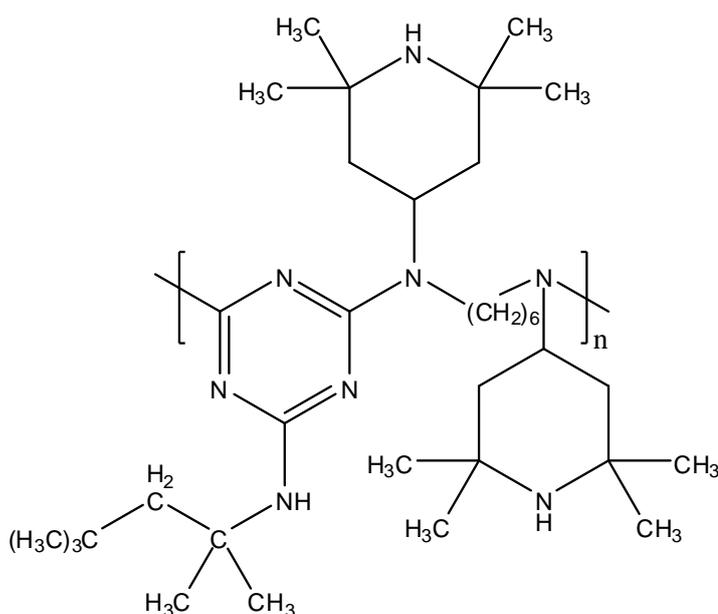
**Quality Products.
Dependable Service.**

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]]

Synonym: 1,6-Hexanediamine, N,N'-bis(2,2,6,6-tetramethyl-4-piperidinyl)-, polymer with 2,4,6-trichloro-1,3,5-triazine, reaction products with 2,4,4-trimethyl-2-pentanamine

Chemical Structure



Introduction

PowerStab™ 944 is a polymeric hindered amine light stabilizer. It has excellent light stabilization performance in polyolefins (thin- and thick-section), low volatility and excellent resistance to migration.

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Physical Properties

| | |
|--------------------------------------|--|
| CAS No. | 71878-19-8, 70624-18-9 |
| EC No. | n.a. |
| Formula | (C ₃₅ H ₆₈ N ₈) _n |
| Molecular Weight | n.a. |
| Specific Gravity _[20°C] | 1.01 |
| Vapor Pressure _[20°C, Pa] | ~1.0E-6 |
| Melting Point(°C) | 100-135 |
| Flash Point(°C) | Min.150 |
| Volatiles (%) | Max.1.0 |
| Color of Solution 425nm (%) | Min.95 |
| Color of Solution 450nm (%) | Min.96 |
| Appearance | White to light yellow granule |
| Ash(%) | Max,0.1 |

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

Applications

PowerStab™ 944 is a polymeric hindered amine light stabilizer (HALS) which is effective in a broad range of polymers and applications. The product is particularly useful in PE applications (injection molding, film, and tape), PP (injection molding, film, and fibers), TPO, polyamide fibers, flexible and rigid PVC, styrenic TPE's, polyurethanes, and

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specialty adhesive applications. It is also suitable for use in xylene XLDPE.

Handling and Storage

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. Protect skin. Avoid dust formation and ignition sources.

This product may be stored up to one year 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 in use.

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

Packing

PowerStab™ 944 is supplied in 25kg PE bag

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