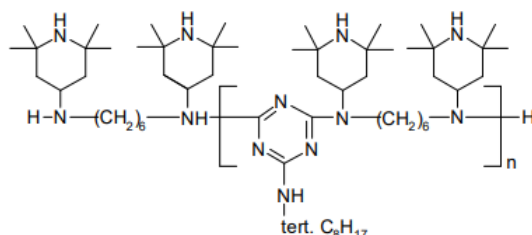


PUREsorb 944

Oligomeric Hindered Amine Light Stabilizer (HALS)

Description **PUREsorb 944** is a high molecular weight hindered amine light stabilizer (HALS). It shows excellent compatibility, high resistance to extraction and low volatility.

Chemical Structure



Chemical name Poly[[6-[(1,1,3,3-tetramethylbutyl)amino]-s-triazine-2,4-diyl]-[(2,2,6,6-tetramethyl-4-piperidyl)imino]-hexamethylene-[(2,2,6,6-tetramethyl-4-piperidyl)imino]]

CAS number 71878-19-8 **Molecular weight:** Mn = 2000 - 3100 g/mol

Features & benefits **PUREsorb 944** imparts excellent light stability to thin articles, particularly fibres and films. In thick cross sections it is specifically suitable for polyethylene articles. In addition, its use is recommended for applications requiring indirect food contact approval. **PUREsorb 944** is highly effective as a long-term thermal stabilizer in thin and thick articles and shows good extraction resistance.

Applications **PUREsorb 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 **PUREsorb 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.

| | |
|--|-------------|
| Films (LDPE & LLDPE) | 0.10 - 1.0% |
| Fibers (PP) | 0.10 - 1.4% |
| Tapes (HDPE & PP) | 0.10 - 0.8% |
| Thick section (HDPE, LDPE, LLDPE & PP) | 0.05 - 1.4% |

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.

Physical Properties:

| | |
|-----------------------------------|---|
| Product form | White to slightly yellowish white to slightly yellowish granules and Powder |
| Melting range | 100 - 135°C |
| Vapor pressure | 1.01 -E6 Pa |
| Flash Point | >150°C |
| Specific gravity (20°C) | 1.01 g/cm ³ |
| Solubility (20°C) g/100g solution | Solubility (20°C) g/100g solution |
| - Acetone | >50 |
| - Chloroform | >50 |

TECHNICAL DATA SHEET

Polygel Product Management

Email: info@polygelbrunei.com



| | | | |
|----------------------|-----|------------|-------|
| - Ethyl-acetate | >50 | - Toluene | >50 |
| - Methanol | 3.0 | - n-hexane | 40.0 |
| - Methylene Chloride | >50 | - Water | <0.01 |

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November' 2019