BLS® 1880PE
BLS® 1880PP
Hindered Amine Light Stabilizers for Plastics

Overview
BLS 1880PE and BLS 1880PP are monomeric hindered amine light stabilizers (HALS) that provide excellent light stability in thick-section polypropylene and TPO applications. These products often outperform other low-molecular weight HALS (e.g. BLS® 1770) even when used at reduced concentrations. BLS 1880PE and BLS 1880PP are also non-discoloring and have excellent compatibility with polyolefin substrates. The pellet product forms makes the products easy to handle and dose, and help to improve plant hygiene.

Chemistry

- **Chemical Name:** Fatty acids, C_{12-21} and C_{18-unsaturated}, 2,2,6,6-tetramethyl-4-piperidinyl esters
- **CAS Number:** 167078-06-0
- **Chemical Structure:**

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    H
   / \ 
  N   O
 /   / 
\    R
   \  
    O
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R = C_{11-17} mainly C_{15-17}

**Typical Properties**

- **Product Form:** Solid
- **Molecular Weight:** Mixture

**Applications**
BLS 1880PE and BLS 1880PP are recommended for use in polypropylene and TPO thick-section parts. The products are also suitable for use in styrenic polymers (ABS, ASA, HIPS, SAN), HDPE thick-section parts, and in TPE’s.

**Advantages**
- Outstanding light stability in PP and TPO thick-section applications
- Non-discoloring
- Excellent compatibility with polyolefins
- Pellet product forms for ease of handling and dosing
Guidelines for Use

Recommended concentrations in PP and TPO range from 0.05 to 1.0%. The use of the products in combination with a benzoate light stabilizer such as BLS 2908 is recommended for applications with the most demanding weathering requirements. In some cases the addition of a UV absorber such as BLS 531 or BLS 1326 can provide further improvements in performance. The exact formulation to be used is dependent on the substrate, performance requirements, and other factors, and should be determined by the user based on testing to simulate actual conditions of use. Please contact Mayzo for specific recommendations.

Storage

This product may be stored up to one year in a sealed container. Containers should be kept tightly closed when not in use and stored in a cool, dry place.

Safety

Please consult the Safety Data Sheet (SDS) prior to handling or using this product.

FDA Regulations

These products have not been cleared by the FDA for use in food contact applications.

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