



Mayzo Makes It Possible

## BLS<sup>®</sup> 1880PE BLS<sup>®</sup> 1880PP

### Hindered Amine Light Stabilizers for Plastics

#### Overview

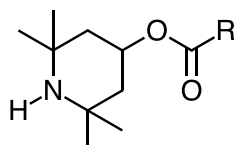
BLS 1880PE and BLS 1880PP are monomeric hindered amine light stabilizers (HALS) that provide excellent light stability in thick-section polypropylene and TPO applications. These products often outperform other low-molecular weight HALS (e.g. BLS<sup>®</sup> 1770) even when used at reduced concentrations. 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<sub>12-21</sub> and C<sub>18</sub>-unsaturated,  
2,2,6,6-tetramethyl-4-piperidiny l esters  
BLS 1880PE 50% active in a LLDPE carrier  
BLS 1880PP 50% active in a PP carrier

CAS Number: 167078-06-0

Chemical Structure:



R = C<sub>11</sub>-C<sub>17</sub>  
mainly C<sub>15</sub>-C<sub>17</sub>

#### 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.

The information contained herein is believed to be reliable. However, Mayzo, Inc. makes no warranty, whether expressed or implied, including warranties of merchantability or of fitness for a particular purpose, for the product or products referred to herein. No statements or recommendations contained herein are to be constructed as inducements to infringe any relevant patent, now or hereafter existence. Under no circumstances shall Mayzo, Inc. be liable for incidental, consequential, or other damages from alleged negligence, breach of warranty, strict liability, or any other legal theory, arising out of the use of handling of the product or products referred to herein. The sole remedy of the buyer and sole liability of Mayzo, Inc. for any claims shall be limited to the buyers purchase price of the product which is subject of the claim or the amount actually paid for each product, whichever is less. Technical advice furnished by seller shall not constitute a warranty, which is expressly disclaimed, all such advice being given and accepted at the buyers risk.