SONGWON is a leading specialist in polyolefin stabilization for end uses such as films and tapes.

Thanks to their excellent physical and technical properties, SONGNOX® and SONGXTEND® stabilizers are widely used to achieve high performance and protect molecular weight during polyolefin melt conversion.

It’s all about the chemistry™
Converters benefit from SONGWON’s long-standing expertise.

Wide range of stabilizers
High processing stability thanks to effective protection of molecular weight during melt conversion
Low initial color and low color development during melt conversion
Low gas fading
Considerable improvement of long-term thermal stability (LTTS)

Proven reliability
More than 50 years’ manufacturing experience in South Korea
Backward integration of key raw materials
Global sales organization channels in Asia, Europe and North America

Technical expertise at hand
Testing laboratory in South Korea
Technically advanced, customized stabilizer formulations
Dedicated local support centers

Strong commitment
Continuous innovation to meet new industry standards

SONGNOX® and SONGXTEND® stabilizers cover a wide variety of requirements in polyolefin protection.

Both SONGNOX® 11B and SONGNOX® 21B offer good overall base stabilization.

SONGNOX® 611B, which improves overall protection of molecular weight and color, can be added during compounding or masterbatching.

SONGNOX® 1162 has excellent compatibility in polyolefins as well as better initial color and lower color development during processing than SONGNOX® 21B.

SONGXTEND® 1102 offers an excellent balance of all basic performance criteria as well as outstanding gas-fading resistance properties in polypropylene (PP).
SONGNOX® and SONGXTEND® stabilizers recommended for polyolefin melt conversion

<table>
<thead>
<tr>
<th></th>
<th>Processing stability</th>
<th>Initial color</th>
<th>Discoloration</th>
<th>Gas fading</th>
<th>Improvement of LTTS</th>
<th>Other</th>
<th>Performance profile</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SONGNOX® 11B</strong></td>
<td></td>
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<td>Good balance between processing stability, color and LTTS</td>
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<tr>
<td><strong>SONGNOX® 21B</strong></td>
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<td>Improved processing stability versus SONGNOX® 11B</td>
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<tr>
<td><strong>SONGNOX® 611B</strong></td>
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<td>Excellent balance between processing, color and LTTS</td>
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<tr>
<td><strong>SONGNOX® 1162</strong></td>
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<td>Improved initial color and color development and excellent solubility in polyolefins</td>
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<tr>
<td><strong>SONGXTEND® 1102</strong></td>
<td>Only for polypropylene applications</td>
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<td></td>
<td>Excellent balance between processing, color and gas fading. Specifically for in situ addition during synthesis, low interaction with Ziegler/Natta catalyst</td>
</tr>
</tbody>
</table>

- Recommended / Fully complies with criteria
- Suitable / Can be used

Storage conditions

SONGNOX® and SONGXTEND® stabilizers are supplied in powder (PW) or free flow (FF) form.

The materials should be stored indoors, in closed containers, in a dry place at temperatures between 5 and 40°C.

Exposure to direct sunlight should be avoided.

Shelf life

SONGNOX® and SONGXTEND® products are stable for 12 months, provided they are stored under the conditions described above.
SONGWON provides customers with warranties and representations as to the chemical or technical specifications, compositions and/or the suitability for use for any particular purpose exclusively in individual written agreements.

The facts and figures contained herein have been carefully compiled to the best of SONGWON’s knowledge but are essentially intended for informational purposes only.

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