SONGWON is a leading specialist in the stabilization of polypropylene (PP) fiber and thin wall injection molding (TWIM).

Thanks to their excellent physical and technical properties, SONGNOX® and SONGXTEND® stabilizers are widely used by manufacturers to produce high-quality fibers and plastics.
Fiber manufacturers benefit from SONGWON’s long-standing expertise.

SONGNOX® and SONGXTEND® stabilizers are suitable for the production of high-quality polypropylene fibers & TWIM.

SONGNOX® 321B has better gas fading resistance than standard stabilizer package SONGNOX® 21B, which is not suitable for color-critical polypropylene fiber or thin wall injection molding (TWIM).

SONGXTEND® 1140 offers best in class initial color and color development for polypropylene continuous filament (CF), bulk continuous filament (BCF) and spunbond grades.

SONGXTEND® 1141 achieves state of the art stabilization of polypropylene continuous filament, bulk continuous filament, spunbond fibers and thin wall injection molded grades.

SONGXTEND® 1140 and SONGXTEND® 1141 provide a good balance between initially low interaction with peroxides in the controlled rheology step and subsequent high processing stability. UV stability can be adjusted through the addition of a hindered amine light stabilizer (HALS), e.g., SABO®STAB UV 119, without impacting other performance criteria.
SONGNOX® and SONGXTEND® stabilizers recommended for polypropylene fiber and thin wall injection molded grades

<table>
<thead>
<tr>
<th></th>
<th>Processing stability</th>
<th>Peroxide interaction</th>
<th>Initial color</th>
<th>Color development</th>
<th>Gas fading</th>
<th>Improvement of LTTS</th>
<th>Easily adjustable LTTS &amp; UV</th>
<th>Performance profile</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SONGNOX® 21B</strong></td>
<td><img src="Stamp" alt="" /></td>
<td><img src="Stamp" alt="" /></td>
<td><img src="Stamp" alt="" /></td>
<td><img src="Stamp" alt="" /></td>
<td><img src="Stamp" alt="" /></td>
<td></td>
<td></td>
<td>Emphasis on processing stability</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Not suitable for color critical applications</td>
</tr>
<tr>
<td><strong>SONGNOX® 321B</strong></td>
<td><img src="Stamp" alt="" /></td>
<td><img src="Stamp" alt="" /></td>
<td><img src="Stamp" alt="" /></td>
<td><img src="Stamp" alt="" /></td>
<td><img src="Stamp" alt="" /></td>
<td></td>
<td></td>
<td>Good balance between processing stability, peroxide interaction and gas fading</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Improved gas fading vs. SONGNOX® 21B</td>
</tr>
<tr>
<td><strong>SONGXTEND® 1141</strong></td>
<td><img src="Stamp" alt="" /></td>
<td><img src="Stamp" alt="" /></td>
<td><img src="Stamp" alt="" /></td>
<td><img src="Stamp" alt="" /></td>
<td><img src="Stamp" alt="" /></td>
<td><img src="Stamp" alt="" /></td>
<td><img src="Stamp" alt="" /></td>
<td>Excellent balance between processing, low peroxide interaction, low color &amp; low gas fading properties</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Specifically for BCF, CF &amp; spunbond applications</td>
</tr>
<tr>
<td><strong>SONGXTEND® 1140</strong></td>
<td><img src="Stamp" alt="" /></td>
<td><img src="Stamp" alt="" /></td>
<td><img src="Stamp" alt="" /></td>
<td><img src="Stamp" alt="" /></td>
<td><img src="Stamp" alt="" /></td>
<td><img src="Stamp" alt="" /></td>
<td><img src="Stamp" alt="" /></td>
<td>Similar performance profile to SONGXTEND® 1141</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Excellent initial color, Fully formulated system</td>
</tr>
</tbody>
</table>

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

**Storage conditions**

SONGNOX® 321B is supplied in powder (PW) or free flow (FF) form. SONGXTEND® 1140 and 1141 are available in granule (GR) 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.

SONGWON Industrial Group does not accept any liability whatsoever for any information, reference or advice provided in this document or any similar SONGWON publication.

Version 2, August 2017

For further information, please go to:
www.songwon.com
techservice@songwon.com

Please be aware that the use of the product in certain applications may be subject to patent protection in some countries.

Please consult your SONGWON representative for more information.