SONGWON

Polymer stabilizers

Liquid UV stabilizers

SONGSORB® 5710
SONGSORB® B5075

SONGWON light stabilizers are designed to meet long-term UV-stabilization requirements in the plastics industry.

SONGSORB® 5710 is a liquid ultraviolet absorber (UVA) that imparts good light stability to a variety of polymers. It can be used alone or in combination with a hindered amine light stabilizer (HALS) to achieve improved light stability.

SONGSORB® B5075 is a synergistic liquid stabilizer blend of a benzotriazole UVA with a HALS and a phenolic antioxidant (AO).

- Liquid benzotriazole UV absorber exhibiting strong absorbance in the 300 – 400 nm range and minimal absorbance in the visible region (>400 nm)
- Highly soluble in numerous solvents, monomers or intermediates and high compatibility in various substrates
- Suitable for PU foam, TPU, PVC, PVB, PMMA, PC, EVA, and unsaturated polyesters

SONGSORB® 5710 UV absorber

SONGSORB® 5710 is a liquid UVA of the benzotriazole type and exhibits strong absorbance in the 300 – 400 nm range and minimal absorbance in the visible region (> 400nm). It is highly soluble in numerous solvents, monomers, or intermediates.

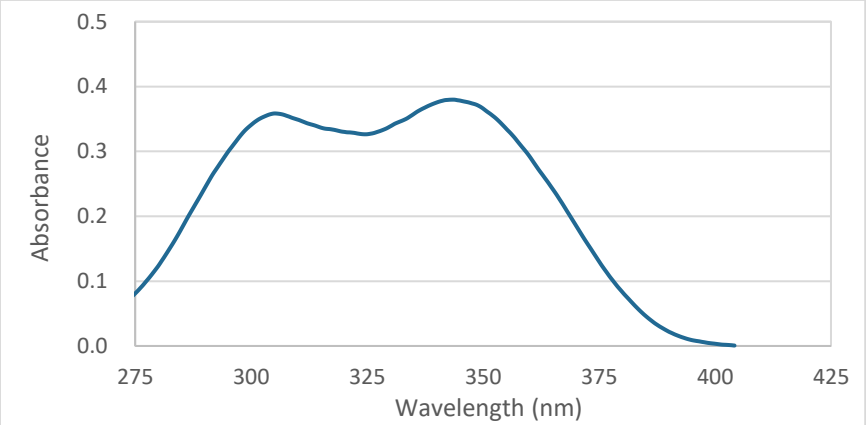
Solubility

(g/100g at 25℃)

n-Butanol	> 50	Methylene chloride	> 50
Butyl acetate	> 50	Distilled water	< 0.01
Acetone	> 50	Xylene	> 50
Ethanol	12	Toluene	> 50
n-Hexane	> 50		

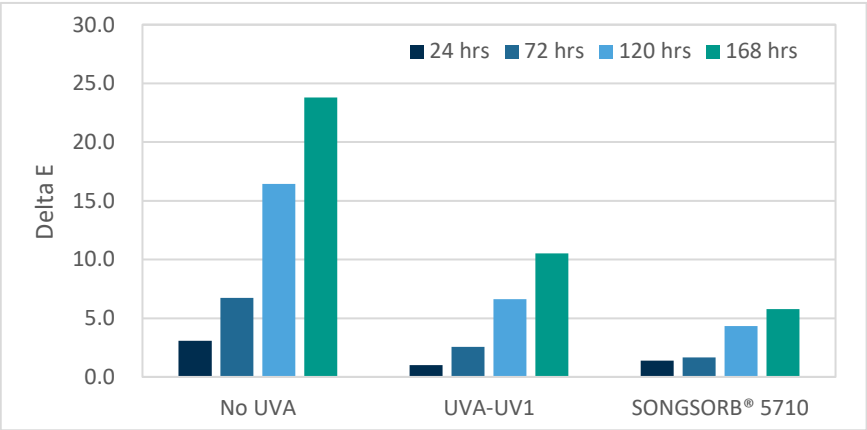
UV-absorbance spectrum of SONGSORB® 5710:

- **Substrate:**
  Chloroform
- **Conditions:**
  10 mg/l solvent
  1-cm path length



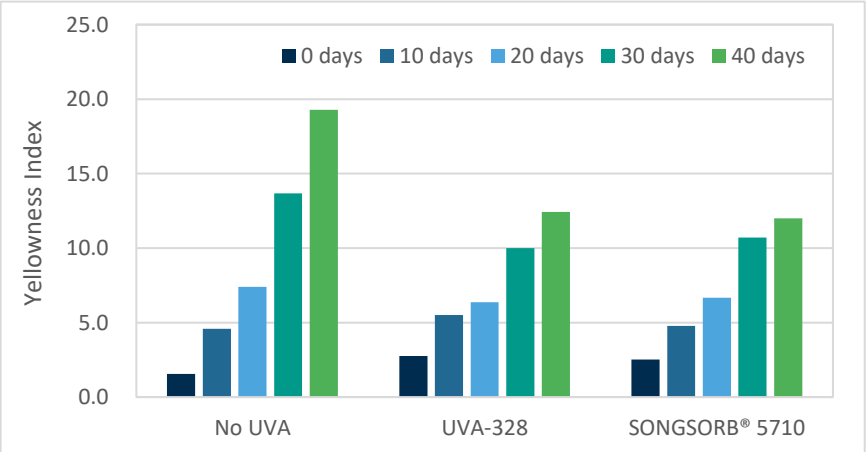
Delta E of TPU in accelerated weathering testing:

- **Substrate:**
  PVC
- **Stabilization:**
  Phenolic antioxidant + 0.5% UVA
- **Accelerated weathering method:**
  QUV at 340 nm



Yellowness index of PVC in accelerated weathering testing:

- **Substrate:**
  PVC
- **Stabilization:**
  Heat stabilizer + 0.5% UVA
- **Accelerated weathering method:**
  QUV at 340 nm

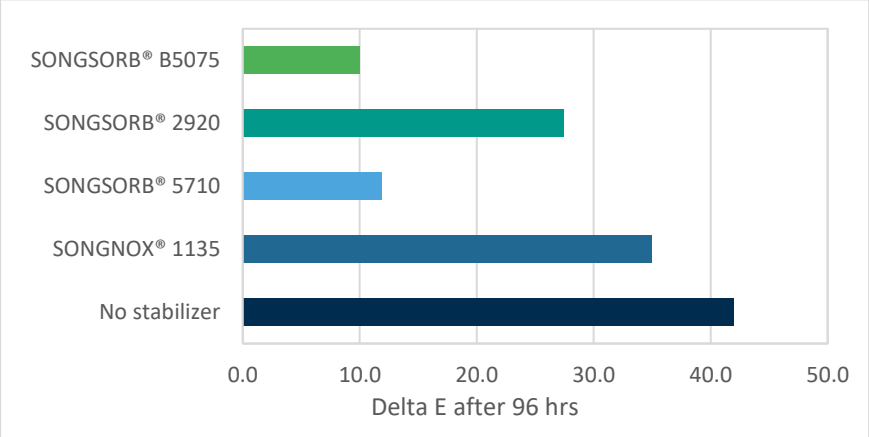


SONGSORB® B5075 light stabilizer blend

- SONGSORB® B5075 is a synergistic light stabilizer blend of a phenolic antioxidant and light stabilizers and is designed for polyurethanes.
- It prevents the thermal- and UV degradation of polyurethane products such as shoes soles, instrument and door panels, steering wheels, head and arm rests.
- It can be easily added to both aromatic and aliphatic polyurethane systems for thermoplastic moldings, semi-rigid integral foams, reaction injection molding (RIM) polyurethane and thermoplastic polyurethane (TPU).

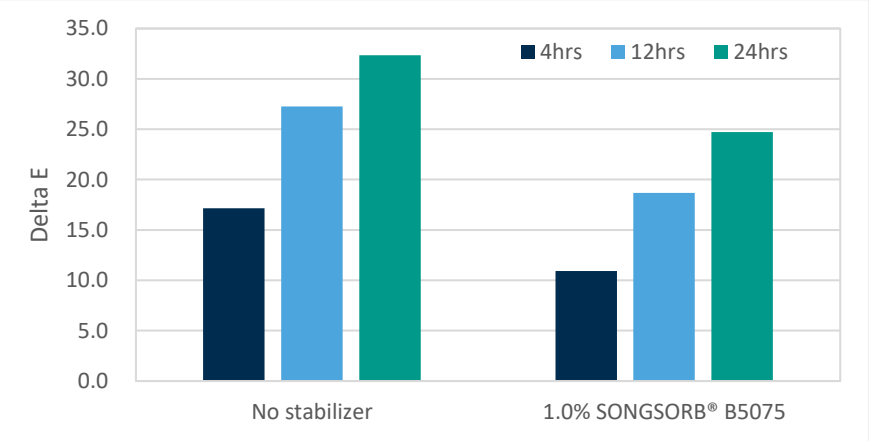
Delta E of TPU in accelerated weathering testing:

- **Substrate:**
  TPU
- **Stabilization:**
  + 1% stabilizers
- **Accelerated weathering method:**
  QUV at 340 nm



Delta E of TPU in accelerated weathering testing:

- **Substrate:**
  PU rigid foam
- **Stabilization:**
  + 1% stabilizers
- **Accelerated weathering method:**
  QUV at 340 nm



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11/2025