SONGWON’s PP stabilization technology expertise enhances the sustainability of automotive recycling applications

Developed with sustainability in mind and to ensure the quality of recycled plastics is maintained, SONGXTEND® 2721 improves long-term heat stability (LTTS) thanks to its excellent physical and technical properties.
Automotive manufacturers benefit from SONGWON’s vast industry experience and sustainable production expertise.

SONGXTEND® 2721 provides:

**Sustainable flexibility**
- Enables recycled-PP to be re-used in durable applications
- Concentration levels can be adjusted to meet the long-term heat stability (LTTS) requirements of applications (e.g. engine room covers, cable ducts, battery housing etc.)

**Extends performance**
- Increases quality & upgrades recycled-PP performance
- Enhances sustainability by extending the service life of recycled-PP

SONGWON offers:

**Proven reliability**
- Produced with the highest quality backed by SONGWON’s 50 years of manufacturing experience
- Proprietary technology & backward integrated in key raw materials guarantees consistent supply
- SONGWON’s global sales organization & dedicated local support are ready to help customers wherever & whenever they require

SONGXTEND® 2721 enhancing top-up stabilization system for PP recycled resins was especially designed for automotive interior and under-the-hood automotive parts.

SONGXTEND® 2721 retains the quality level while re-stabilizing recycled-PP, improves LTTS performance and extends the service life to a possible 3 to 4 factor depending on the recycle stream's quality.
SONGXTEND® 2721 – a sustainable solution for automotive recycling applications

SONGXTEND® 2721 minimizes the negative effect of acid residues from battery case recycling streams.
SONGWON provides manufacturers expert support in selecting the right stabilization system independent of the recycled-PP’s source or quality.

Enhanced durability of recycled-PP

| Substrate: Polypropylene (Co-) polymer – (Mixed) recycling stream M |
| Recycling: Homogenization, compounding & injection molding |
| Sample: 1 mm injection molded plaques |
| Conditions: Embrittlement time to onset after 150°C exposure in hot air oven |

Embrittlement time to onset (hours)

- Reprocessed PP + 1.2% SONGXTEND® 2721 (as a top-up during recycling) = 1104 hours
- Reprocessed PP = 168 hours

Storage conditions

SONGXTEND® 2721 is supplied in granule (GR) form and should be stored in closed containers, in a dry area indoors out of direct sunlight, at temperatures of 5°C – 40°C.

Shelf life

Provided SONGXTEND® 2721 is stored as indicated, it will remain stable for 12 months.
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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