



SONGXTEND® 2151 & 2152

Antioxidants for  
polypropylene-random  
copolymers (PP-R)  
water pipes

SONGWON is a leading specialist in  
the stabilization of PP-R pipes.

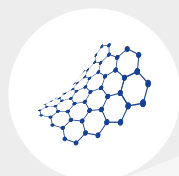
Thanks to their excellent physical and technical properties,  
SONGXTEND® application-specific antioxidants are  
widely used by plastic pipe manufacturers in numerous  
applications such as plumbing and underfloor heating.

It's all about **the chemistry™**

 **SONGWON**

# Plastic pipe manufacturers benefit from SONGWON's long-standing expertise

## SONGXTEND® 2151 & SONGXTEND® 2152 in a nutshell



- Improved cost efficiency
- Enhanced processability
- Excellent product consistency
- High temperature resistance
- Minimal influence on taste & odor

## Technical expertise at hand



- Testing laboratory in South Korea
- Technically advanced, customized stabilizer formulations
- Dedicated local support centers

## Proven reliability



- More than 50 years' manufacturing experience in South Korea
- Backward integration of key raw materials
- Global sales organizations in Asia, Europe, MEA and North America

## Strong commitment



- Continuous innovation to meet new industry standards

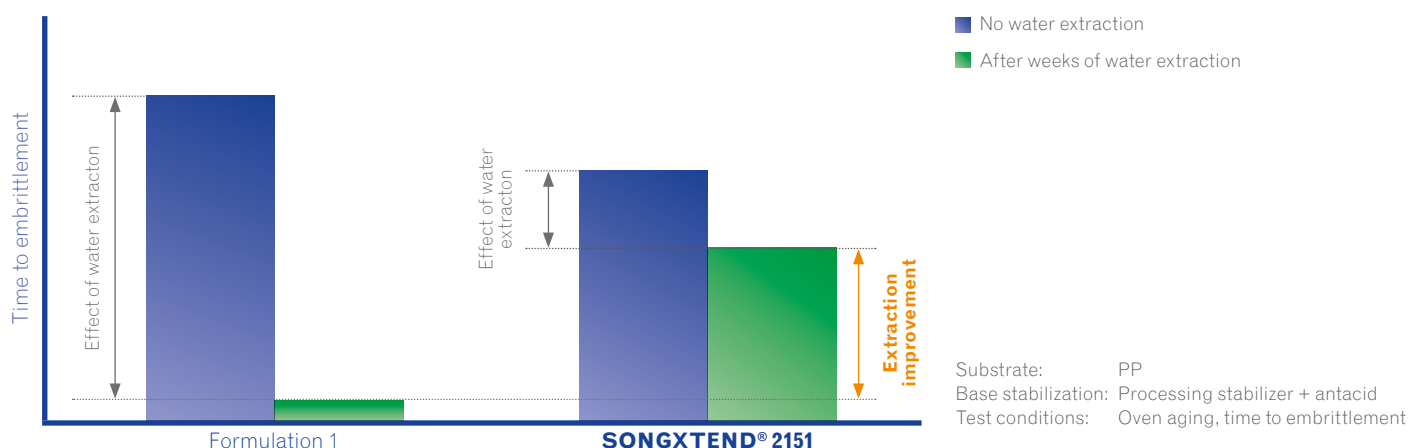
SONGXTEND® application-specific antioxidants cover a wide variety of requirements in PP-R stabilization.

For more than 20 years, PP-R has been a material of choice for use in the production of plastic pipes for hot and cold water transportation. Long-term thermal stabilization (LTTS) was traditionally based on phenolic antioxidants and thioesters. The thioester was later dropped, as it has a negative effect on the taste and odor of water.

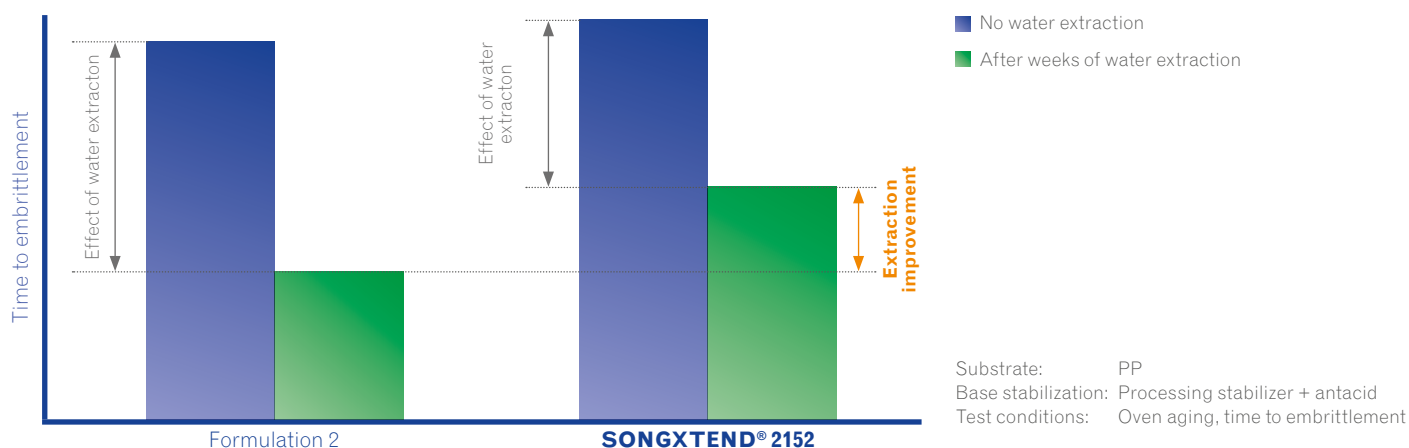
Nowadays, single phenolic antioxidants or combinations thereof are the key components for LTTS.

The benefits of PP-R piping include light weight, fast and reliable weld jointing, and corrosion resistance. It is mainly used in domestic-plumbing and floor-heating applications.

## Extended service life of PP achieved with SONGXTEND® 2151 in extractive applications



## Extended service life of PP achieved with SONGXTEND® 2152 in extractive applications



### Storage conditions



SONGXTEND® antioxidants are supplied in powder (PW) and granule (GR) form. The material 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



SONGXTEND® antioxidants are stable for 12 months, provided they are stored under the conditions described above.



For further information, please go to:

**[www.songwon.com](http://www.songwon.com)**

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Version 1.1, July 2022