



SONGWON Mechanical Recycling story

SONGWON supports the mechanical recycling industry with antioxidants for re-stabilization of recycled polyolefins.

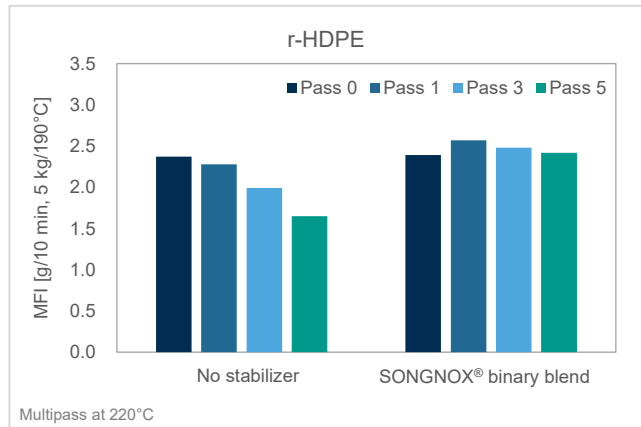
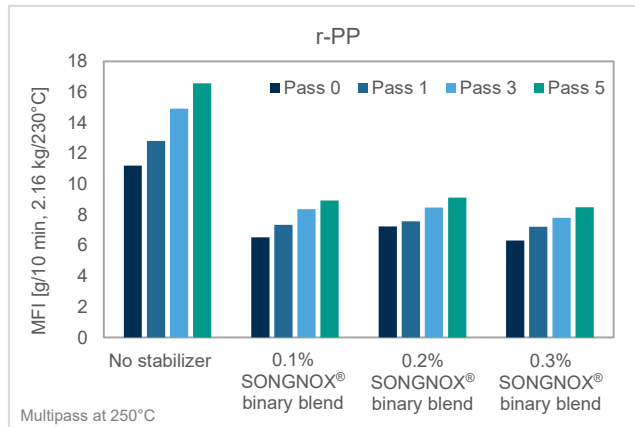
In line with today's growing emphasis on sustainability, mechanical recycling is now an important trend in the plastics industry, and technologies are becoming increasingly sophisticated.

Post-consumer-recycled (PCR) and post-industrial recycled (PIR) polyolefins are not generally topped up with antioxidants. SONGWON has adopted a pragmatic approach to solving recycling challenges and now offers SONGNOX® binary blends, XP 2121 experimental stabilizer, and SONGNOX® PQ stabilizer to improve processing and long-term thermal stability of recycled polyolefins.

- In most cases, the addition of a SONGNOX® binary blend such as SONGNOX® 11B or SONGNOX® 21B provides sufficient protection during mechanical recycling of polypropylene (PP) and high-density polyethylene (HDPE).
- XP 2121, an experimental stabilizer, which contains an acid scavenger, further enhances processing and long-term thermal stability of r-PP. It is primarily supplied in granular (GR) form, as this allows easy dosing and minimizes dust.
- SONGNOX® PQ improves processing stability and prevents gel formation of recycled linear low-density polyethylene (r-LLDPE) during processing.

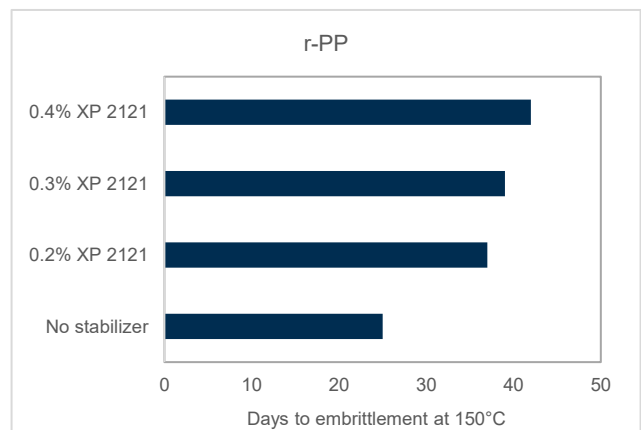
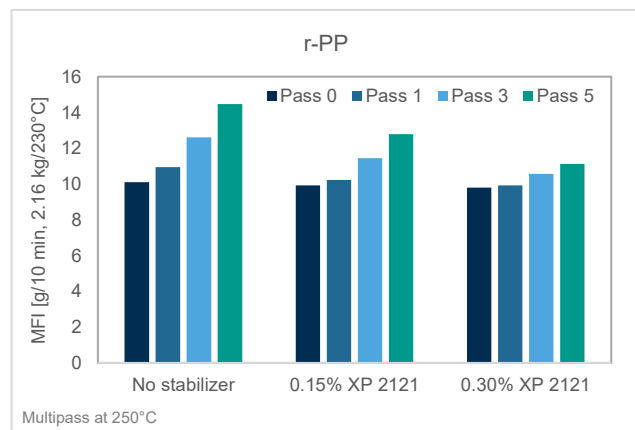
SONGNOX® binary blends

- SONGNOX® binary blends are a combination of SONGNOX® 1010 and SONGNOX® 1680. SONGNOX® 11B and SONGNOX® 21B provide r-polyolefins with effective stabilization during processing and reliable long-term thermal protection.



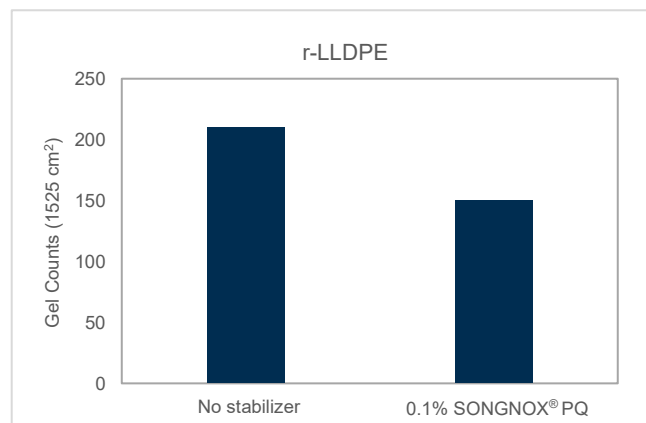
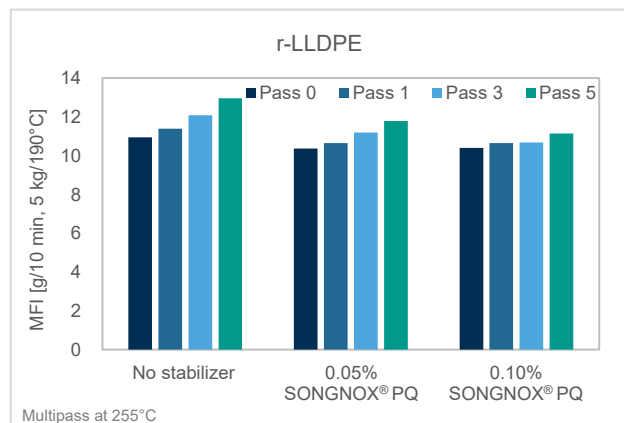
XP 2121 experimental stabilizer

- This novel antioxidant enhances the stability in processing and the long-term thermal stability of r-PP, particularly lower-purity and poorer-quality grades.
- It is primarily supplied in granular (GR) form, allowing easy dosing and minimizing dust.



SONGNOX® PQ stabilizer

- This highly efficient phosphonite antioxidant has excellent compatibility in PE.
- It improves stability and prevents gel formation during processing of r-LLDPE.



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.

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