



Blow molded bottles and containers with superior performance using Paxon™ SP5504



Blow molded HDPE bottles and containers with superior performance are now possible using Paxon[™] SP5504. Offering a paradigm shift in properties normally associated with existing unimodal HDPE resins, Paxon[™] SP5504 delivers a stepchange in ESCR¹ (Environmental Stress Cracking Resistance) without significantly compromising stiffness, impact, or top load performance. Additionally, its melt index (MI) and density make it easy to process.

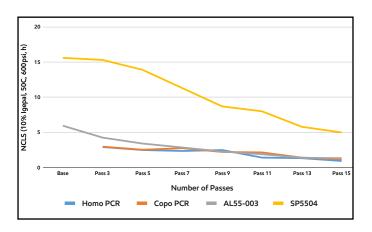
Innovative, more complex designs

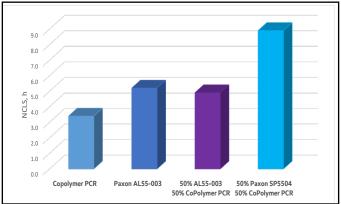
Paxon SP5504 makes it possible for converters to create cost-effective, innovative bottles and containers for household and industrial chemicals (HIC), such as bleach, wipes, and agricultural chemicals. Using Paxon SP5504 enables the production of multiple applications from standard blow molding through to more demanding HIC-type applications, while more complex molded designs can be fabricated with this single material. Brand owners can envision more creative packaging designs and converters can potentially reduce polymer inventories.

Drop-in solution

In terms of performance, processability and value-in-use, Paxon SP5504 fills the space between unimodal and bimodal HDPE grades. Because of its superior performance, converters can use it as a drop-in solution for unimodal HDPE grades of a similar density/MI balance but with an better overall balance of properties. Alternatively, Paxon SP5504 could be used to replace bimodal HDPE grades in applications that have had to be over-engineered in order to obtain the desired balance of ESCR and stiffness.

 $^{^{\}rm 1}\,$ As measured by ASTM Bent Strip and NCLS tests.





The ESCR performance of Paxon" SP5504 is significantly above standard resins after 15 passes through a ZSK-45 twin screw extruder @ 220°C

The ESCR performance of Paxon" SP5504 is significantly above standard resins after 15 passes through a ZSK-45 twin

Enhanced sustainability potential

Blow molded HDPE typically contains differing levels of PCR (post-consumer recycled) content in the core of multilayer bottles and containers, dependent on the design. Due to the superior property balance offered by Paxon™ SP5504, converters can increase the PCR content without significantly compromising the properties of finished parts.

With the industry striving towards increased incorporation of PCR, value in use has been demonstrated at PCR levels at and above 25%, potentially helping the value chain meet evolving sustainability targets. The full potential for use of Paxon SP5504 with PCR is being further investigated.

Create cost-effective, innovative solutions for blow molded HDPE bottles and containers with the superior performance delivered by Paxon™ SP5504.

Why ExxonMobil PE? Why today?



What some might view as solutions that will only happen in the future, ExxonMobil PE is making possible today – through our innovative and reliable products, collaborative approach, technology leadership and support, and our unmatched global supply and resources.

Why wait for tomorrow to advance your business today? Learn more about how we're helping our customers create innovative solutions now. Contact your ExxonMobil PE representative and begin experiencing tomorrow's performance today in your blow molded HDPE bottles and containers.

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