

DuPont™ Kevlar® AP

FOR BELT APPLICATIONS

Enhanced fiber technology provides increased strength and longer belt life.



The improved fiber finish of DuPont™ Kevlar® AP provides enhanced processing for higher-speed fiber handling.

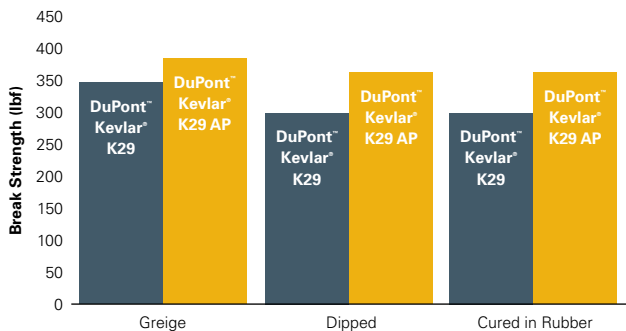
For more than 40 years, the DuPont™ Kevlar® brand of fiber technology has been highly recognized across a wide range of markets for its strength, quality, proven performance and light weight. The latest innovation from DuPont is the Kevlar® Advanced Performance (AP) product family, which offers even more advantages than the standard Kevlar® product, including improved performance and cost effectiveness and increased design flexibility to build leaner, more robust products.

DuPont has continued its commitment to research and development to enhance the performance of Kevlar® in new and existing belt applications. Utilizing new technology, Kevlar® AP is capable of delivering a variety of new benefits in the manufacturing of industrial belts, including increased strength, fatigue resistance, design flexibility and durability, as well as a new finish that offers improved processing.

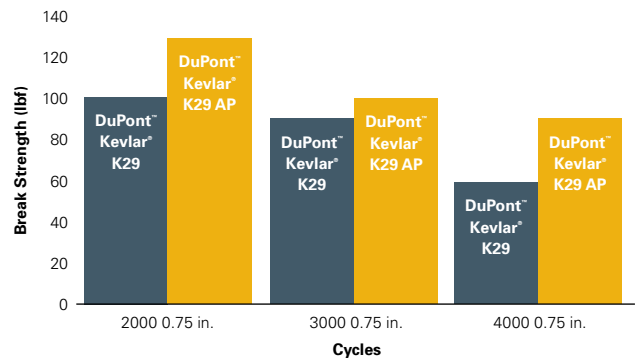
Higher tenacity/strength performance

Lab data indicate that DuPont™ Kevlar® K29 AP provides up to a 15% increase in tenacity and strength over the standard Kevlar® K29 product. This data carried through all steps in the evolution of cord treatment, including twisting (greige), heat treatment and cord in rubber. After the rubber curing process, Scott Flex tests showed a corresponding increase in fatigue performance with Kevlar® K29 AP. In independent belt testing by belt manufacturing customers, Kevlar® K29 AP showed a 60% improvement in life over the standard Kevlar® K29 product, with a 15% reduction in cord content in the belt.

Breaking strength



Scott Flex testing



Kevlar

Enhanced processing

DuPont™ Kevlar® AP features a new fiber finish, based on DuPont ballistic finish technology, which delivers several important benefits, including: lower friction, improved processing and very low levels of deposits.

Specifically, there is a significant improvement in static dissipation and a reduction in static charge, leading to better performance in various textile processes, such as weaving, twisting and roving.

In addition, this new fiber finish has better staying power on the fiber during handling, delivering improved protection in initial and downstream processing. Trials have also shown the potential for enhanced cord-to-rubber adhesion.

The bottom line is that the new fiber finish of Kevlar® AP provides superior processing for higher-speed fiber handling.

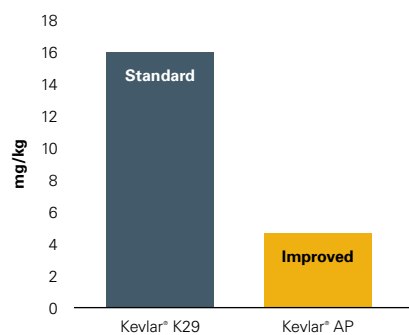
Innovation by DuPont

DuPont™ Kevlar® AP is currently available in 750, 1000 and 1500 denier for use in a wide range of high-strength applications. The benefits from the advancements in technology of Kevlar® AP go beyond the yarns being introduced today. More offerings will be introduced in the near future.

For more information

To learn more about DuPont™ Kevlar® AP and how this next-generation advanced fiber technology can help you improve the performance of your products, call 1.800.931.3456 or visit kevlrap.dupont.com.

Deposits



The new fiber finish of DuPont™ Kevlar® AP provides a reduction in deposits of up to 70%.

Product safety information is available upon request

This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentations. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. This information may be subject to revision as new knowledge and experience become available. Since we cannot anticipate all variations in actual end-use conditions, DUPONT MAKES NO WARRANTIES AND ASSUMES NO LIABILITY IN CONNECTION WITH ANY USE OF THIS INFORMATION. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any trademark patent right.

Copyright © 2010 DuPont. The DuPont Oval Logo, DuPont™, The miracles of science™, and Kevlar® are trademarks or registered trademarks of E.I. du Pont de Nemours and Company or its affiliates. All rights reserved. K-24586 12/10



The miracles of science™

1.800.931.3456
kevlrap.dupont.com