

Milliken® UltraGuard™ Solutions

For improved barrier properties
in polyethylene cartridges

Polyethylene cartridge enhancement with UltraGuard™ Solutions provides controlled crystallization allowing for enhanced properties.

UltraGuard™ Solutions by Milliken is a line of performance additives that brings value to polyethylene parts by improving barrier properties. UltraGuard Solutions cut the transmission rate of the moisture that passes through the packaging by up to 60%.

Most high-performance sealants and adhesives are silicone, polyurethane or cyanoacrylates that are moisture cured.

To prevent premature curing, which results in loss of effectiveness, it is important that the cartridges are manufactured with a material having good moisture barrier properties.

UltraGuard Solutions allow brand owners to commercialize faster-drying products by avoiding the use of expensive moisture scavengers. UltraGuard also extends shelf life and may allow for downgauging for a more sustainable packaging solution.



UltraGuard realigns the PE crystalline structure to create a torturous path



- Better product quality
- Longer shelf life
- Lightweighting opportunities

Please contact your Milliken representative for further product information including chemical registrations, food contact status, and other regulatory details.

PLEASE NOTE: As each customer's use of our product may be different, information we provide, including without limitation, recommendations, test results, samples, care/labeling/processing instructions or marketing advice, is provided in good faith but without warranty and without accepting any responsibility/liability. Each customer must test and be responsible for its own specific use, further processing, labeling, marketing, etc. All sales are exclusively subject to our standard terms of sale posted at www.milliken.com/terms (all additional/different terms are rejected) unless explicitly agreed otherwise in a signed writing.

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