
TECHNICAL BULLETIN

Soil Resistance Performance of Antron® nylon

Antron® nylon consists of two sub-brands: Antron® Legacy™ type 6,6 nylon and Antron® Lumena™ solution dyed type 6,6 nylon. While each of these two INVISTA premium type 6,6 nylon brands has unique features and benefits, they also share many of the same attributes and two of these are:

- **Unique fiber shapes provide soil hiding and cleanability**
Only Antron® carpet fiber features unique hollow filament fiber shapes that help hide soiling. Internal voids refract and diffuse light, enhancing soil hiding capability. Also, the smaller surface area of the hollow filament fiber shapes minimize soil accumulation, making cleaning easier. Competitive fibers have solid trilobal fiber shapes, some with larger surface areas that may accumulate higher levels of soil which could require more frequent cleaning. Without the superior light refraction capability of a hollow filament, soil may be more visible.
- **DuraTech® soil resistance treatment gives long-term soil resistance**
Only carpet styles of Antron® nylon have DuraTech® soil resistance treatment, a durable soil release product that is an integral part of the Antron® nylon brand package which does not need to be specified separately. DuraTech® soil resistance treatment can remain on carpets of Antron® nylon for more than 1MM (one million) foot traffics.

These are fundamental benefits of carpets of Antron® nylon. However, the INVISTA technical team has conducted extensive studies on soil resistance performance between our two premium type 6,6 nylon brands and in summary **“Carpets of Antron® Legacy™ nylon and carpets of Antron® Lumena™ nylon have equivalent soil resistance performance.”** This claim is based on data gathered in five real-world floor tests of 1MM foot traffics each with nightly vacuuming and two hot water extraction cleanings while on the floor. Testing was done on a representative sample of commercially available carpets of comparable construction, style and color. Diagnostic soiling evaluation was also done on light beige loop pile carpets in a real-world floor test of 400K foot traffics. Soiling performance results in all floor tests were reported as color change measured by colorimeter (Delta E or DE).

The Antron® nylon brand difference

The type 6,6 polymer, hollow filament fiber shape technology and DuraTech® soil resistance treatment of Antron® nylon are a powerful combination for keeping carpet looking newer longer. It is important to note that INVISTA makes no claims about its products, competitive or otherwise, without submitting to a stringent vetting process involving our technical and legal teams. Claims contained within this bulletin are backed by rigorous testing protocols and have been validated by a third party.

For more information, visit our web site at antron.net.

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All test results and claims made in this technical bulletin are based upon a representative sample of carpets manufactured and sold in North America. Individual results may vary.