

TECHNICAL CHARACTERISTICS

Construction:	Non-Woven (Needlepunch)
Texture:	Hobnail Pattern, Non-directional
Face Fiber:	100% Solution Dyed Polypropylene, UV Stabilized Fiber from <u>Asota</u>
Face Weight:	52 oz. per square yard
Denier Mix:	17-240 Denier Per Filament (D.P.F.)
Total Weight:	93 oz. per square yard
Backing:	Natural/Synthetic Composite Rubber, Latex/Rubber Composite
Total Height:	5/16 to 7/16 inch (depending on color)
Fire Test:	Passed: Federal Flammability Standard DOC-FF-1-70 (Pill Test)

PERFORMANCE CHARACTERISTICS

- Highly Resistant to Surface Abrasion
- Exceptional Soil Removal
- Superior Water Wiping and Water Retention
- Stain Resistant and Easy Stain Removal
- Mold and Mildew Resistant
- Naturally Anti-Static
- Crush Resistant
- Spike Resistant
- Usable Outdoors and Indoors
- Unaffected by Climate Extremes
- Fade Resistant
- Easily Cleaned by Vacuuming or Hosing

What is "Needlepunch" and its benefits? **There is a difference!!**

The needlepunch process used in our mats produce coarser fibers and a heavier face weight. The coarser fibers result primarily in a mat that performs better in the scraping and wiping process when exposed to foot traffic. The heavier face weight, which is up to 275% heavier than most other mats (52 oz. vs. 19 oz. per sq. yd.), provides a longer useful life and better appearance retention.

The Needleprocess: Start-to-Finish

It's an extremely dense, non-woven carpet product manufactured from 100% polypropylene fibers. These fibers are naturally tough, durable, non-porous, anti-static, fade resistant, stain resistant and highly resilient.

The process begins with solution dyed polypropylene fiber. As required per recipe, bales of different color-tones, weights and deniers (fiber thickness).

are loaded into a high speed mechanical agitator system which breaks the bales up into a mixable, more manageable form. The fibers in this state are then transferred to a large, sealed chamber and "wind blended" under prolonged and intense air pressure. This ultimately results in a totally homogeneous mixture of the colors and

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deniers.

The blended fibers are then placed on a special “webbing” machine where they are aligned in a parallel configuration to form a fleece. Here, the thickness of the carpeting is determined by quantity of fibers fed into the machines, which in turn, determines its weight in ounces per square yard. Next, the fleece is compressed to the thickness and density desired. The material is now ready for the needleboard, the heart of the needlepunch process.

As the fleece feeds into the system, over 26,000 needles with small shanks hammer into and out of the material, on both sides. In the up and down strokes of the needle bar the shanks push, pull and intermingle the fiber into an interlocked mass.

For the addition of texture within the same color, such as wave, hobnail, or rib, the product makes a second pass through a pattern machine. Here, a needleboard – configured to the size/shape of the textural design itself – punches in from the top, and pulls the fibers out and above its original surface, thus leaving the textured shapes in place.

Following this completion of the basic manufacturing process, the carpeting is then rolled through a coating machine where the fibers are bonded with latex resins. This prevents pilling and fuzzing, and imparts added stability.

The final step is application of a backing. While the basic toughness and durability of the needlepunch process actually makes a backing unnecessary, we apply a backing to further enhance the performance of the mat. The primary purpose of the backing is to provide a non-slip surface and enhance the mat’s anti-fatigue features (i.e. reduces standing fatigue).

Why are Asota fibers a premium fiber? **There is a difference!!**

Asota fibers are a premium fiber for a few reasons (i) the fibers are **resilient and resist abrasion**, which offers a longer lasting mat, (ii) the fibers **resist the adverse effects of most chemical-based spills**, which offers a stain resistant mat, and (iii) the fibers **resist the adverse effects of UV-rays**, which protects the mat against fading.

More Resilient

This means it will take longer for our mats to show traffic-patterns. Consequently, our mats will function longer while looking better.

More Resistant To Chemicals

Our mats have been independently tested by Professional Testing Laboratory, Inc. The following chemicals were found to have no adverse effect on the mats:

- Caustic Soda (50%)
- Hydrochloric Acid (35%)
- Acetic Acid (50%)
- Sodium Hydrochloride (Bleach)
- Chlorine
- Sodium Chloride (Rocksalt)
- Sodium Magnesium Acetate (Ice Melt)
- Gasoline
- Diesel Oil
- Turpentine
- Benzene
- Toluene
- Xylene
- Ethanol
- Acetone
- Methylene Chloride
- Perchloroethylene
- Methanol

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SPECIFICATIONS

Gothic Mat™ & Gothic Mat Limited™

More Resistant To UV-Rays

This means our mats will not fade due to exposure to sunlight (UV-rays) as quickly as other needlepunch products.

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