

## Generic high performance specification for carpet of Antron Lumena® solution dyed nylon

### Loop pile tile

## PART TWO PRODUCTS

### 2.1 MATERIALS

**2.1.1 Carpet:** Throughout this contract shall be of the same type and manufacture. Carpeting shall be:

**2.1.1.1 Yarn:** 100% first quality, bulk continuous filament (BCF) nylon type 6,6 offering a construction and performance standards testing program by fiber producer. Hollow filament fiber shape for optimum soil hiding capability. Fiber identification to AATCC 20.

**2.1.1.2 Static Control:** By permanent means (i.e. antistatic filaments) and without chemical treatment, static generation below 3.5 kilovolts. Electrostatic Propensity (Step & Scuff): AATCC 134.

**2.1.1.3 Construction:** tufted or woven, level or multi-level loop pile with maximum height variation of 1/32 inch

**2.1.1.4 Dye Method:** 100% Solution dyed

**2.1.1.5 Pile Weight:** minimum 17 oz/yd<sup>2</sup>, ASTM D5848

**2.1.1.6 Pile density:** minimum 7000 for heavy traffic.  
pile density = 36 x pile wt(oz./sq yd)/ pile thickness (inches)  
(Pile Thickness: ASTM D6859)

**2.1.1.7 Primary Backing:** tufted - 100% woven or non-woven synthetic

**2.1.1.8 Secondary Backing:** vinyl or urethane backing system or equivalent

**2.1.1.9 Resistance to Delamination:** ASTM D3936 minimum 10 lbs/inch

**2.1.1.10 Tuft Bind:** ASTM D1335, minimum of 10 lbs-force

**2.1.1.11 Dimensional stability:** Aachen method/ ISO 2551, Maximum Change +/- 0.20%.

**2.1.1.12 Flammability:** ASTM 648, >0.45 watts/cm<sup>2</sup> critical radiant flux and/or federal, state or local requirements. Smoke Density: ASTM E662 Rating to be less than 450 Dm in flaming mode(or to State Code). Must meet Federal Flammability standard CPSC FF1-70 (Methenamine Pill test ASTM D2859)

**2.1.1.13 Colorfastness to Light:** AATCC 16 part 3, 200 AFU, AATCC Gray Scale for Color Change rating minimum of 3-4.

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**2.1.1.14 Colorfastness to atmospheric contaminants:** AATCC 164 (oxides of nitrogen) & AATCC 129 (ozone) for 2 cycles, AATCC Gray Scale for Color Change rating minimum of 3-4.

**2.1.1.15 Colorfastness to crocking:** AATCC 165, minimum rating of 4 on AATCC Chromatic Transference Scale.

**2.1.1.16 Stain Resistance:** AATCC 171 (HWE) for 2 washings to simulate removal of topical treatments by hot water extraction, followed by AATCC 175. Minimum rating of 8 using AATCC Red 40 Stain Scale.

**2.1.1.17 Soil Resistance:** DuraTech® Soil Resistance treatment

**2.1.1.18 Coloration:** Minimum 5 color hues. Hue values to be in medium to medium-dark range for optimum soil hiding capability.

**2.1.1.19 Appearance Retention** - Vetterman Drum Test, ASTM D5417 for 22,000 cycles. A minimum rating of 3.0 using CRI-3 Loop Pile Reference Scale. Testing without underpad or brushing.

**2.1.1.20 Indoor Air Quality** - maximum 0.5 mg/m<sup>2</sup>hr total VOC emission per ASTM D5116. Meet CRI Green Label requirements.

**2.1.1.21 Recycling:**

New Carpet: Carpet must be eligible for recycling by the supplying mill or fiber producer to an existing operational third party certified recycling center; submit program parameters. Landfills are not an option

Used Carpet: Remove carpet and recycle regardless of manufacturer, fiber type or construction. Reclamation Agency and Carpet Remover shall certify in writing that Used Carpet was removed and recycled. Landfills are not an option.

The specifier reserves the right to choose the appropriate product, based on weighted evaluation.

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