



## **LXR PRO-72ST**

### **Synthetic Turf Specification and Materials**

#### **FIBER**

The pile fiber shall be 100% Dual-Color polyethylene, 100 microns thick with a second thatch of dual color twisted dc nYh nYbY. No other fiber style will be accepted. The fiber shall be non-abrasive polyethylene measuring a minimum cZ2 inches (2"). The fiber shall be designed specifically for outdoor use and treated with UV inhibitor and stabilizers to resist the effects of ultraviolet degradation, heat, foot traffic, water and airborne pollutants. The fiber shall contain no toxic substances or heavy metals. The fibers do not need to be agitated with a motorized rotary nylon broom prior to installation.

The fiber shall meet or exceed the following requirements:

- (a) Linear Density (Denier): 10,000
- (b) Breaking Load: 30 psi
- (c) Elongation to Break: >16%

The fiber should be further specified as follows:

- (a) Fiber/Pile Weight: 72oz. Extra soft Dual-Color Polyethylene w/a dual color twisted second thatch
- (b) Fiber Thickness: 100 microns
- (c) Pile Height: 2 inch
- (d) Color Fastness: Min. ref. Standard 8 Blue Scales (BS1006)
- (e) UV Stability: UV absorbers of Hindered Amine Type
- (f) Fiber Tuft Spacing: one-half of an inch (1/2") in straight stitch

#### **PRIMARY BACKING**

The primary backing shall be a heat and UV resistant three layer, woven product. The primary backing shall be and shall provide dimensional stability in all directions to prevent stretching, and distortion upon installation. The components and performance shall meet or exceed the following requirements:

- (a) Weight: at least 8-oz/sq. yard
- (b) 5% Elongation (Warp): 410 minimum
- (c) Force @ 5% Elongation (Weft): 615 minimum
- (d) Grab Tear Strength (X-Y): 400-250 lb
- (e) Backing (Roll) Width: 15 Feet
- (f) Dimensional Stability: 47.10 N/sq meter (warp), 49.10 N/sq meter (weft)

#### **SECONDARY BACKING**

The secondary backing shall saturate the primary backing and effectively lock the fiber tufts in place to the primary backing. The components and performance shall meet or exceed the following requirements:

- (a) Material: Polyurethane coating
- (b) Weight: 26 oz/sq. yd
- (c) Drainage Perforations: 3/16" diameter at four inches (4") or less on-center on both axes
- (d) Tuft Bind Strength (W/out Infill): >15 lbs
- (e) Grab Tear X and Y (Turf Assembly): >400 lbs X direction and >250 lbs Y direction