



## SportsPlay Equipment, Inc.

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### Sportsplay Shade Structure Specifications

Manufactured from knitted High Density Polyethylene.

Base product HDPE G.F. 7740.72 – only raw material is used

Monofilament round yarn – 350 Dernier/ 0.21mm

Breaking strain – 1.8 kg. Tested individually

Elasticity of Both – 25 to 30%

Knitting pattern – max 6 needles/ inch. Lock stitched on weft and knitting bar

Weight to burst ratio – Exceeds SABS 1703 spec

UV stabilizer in end product – 0.8% effective

Warp tear test avg – 100 kg, Elongation – 50%

Weft tear test avg – 210 kg, Elongation – 25%

Burst Strength – 260 kPA

Fabric Mass - +/- 195 gram/ m2 (=/-5%)

#### Weatherability

Hindered amine light stabilizers. Chimisorb 944 for all colors except black. The min Chimisorb 944 in the final product to be 0.8% effective. Carbon black particle size 22mm and the min in the final product will be 2.5% effective. All colors are pigmented with a light fastness of 7 to 8, which has the highest resistance to fading.

#### Shade & UV Percentages

Color Shadenet:	Shade%	UV% protection
Forest Green	70	90
Royal Blue	90	94
Yellow	70	91
Red	84	83

#### Steel Tubing & Wire Cabling

Round, tubing with a wall thickness which exceeds 2mm. Grade 300 WA, Cold-formed welded & seamless carbon steel tubing in accordance with ASTM A 500. 3"OD. Galvanizing – 55 microns minimum.

#### Components & Fittings

Standard Height is 8' on the outside perimeter, 10' in the middle. Grade 300 WA Flat Bar. Hot dipped to 55 microns minimum. Bolts & Nuts high & std tensile galvanized bolts, BSP treated in metric size. All nuts are nylock type.