

Technical Data Energy C3N



PRODUCT SPECIFICATION			
Product Name	Energy C3N-50	Application	Soccer
Model	Energy C3N-5004B120-BL	Roll Width	4.0m/2.0m
Color	Emerald&Olive Bi-color	Roll Length	On request
Accreditations and Testing	FIFA Quality Concept, ASTM, EN, DIN, Trace, SGS		
YARN CHARACTERISTICS			
Yarn 1		Yarn 2	
Structure	Monofilament	Structure	N/A
Composition (ISO 11357)	PE	Composition	N/A
Dtex (ASTM D1907)	12000	Dtex (ASTM D1577)	N/A
Tape Thickness (ASTM D3218)	310µm	Tape thickness (ASTM D3218)	N/A
Tape Width:	1.4mm	Tape Width	N/A
UV Effects (EN ISO 20105)	Grey Scale 4-5,no visual change	Yarn Breaking Strength (ASTM D2256)	≥110 N
Pill Burn Test (ASTM D2859)	Pass	Yarn Melt Point (ASTM D789)	120°C
CARPET CHARACTERISTICS			
TURF			
Pile Height (ISO 2549)	50mm±1mm	Gauge (ASTM D418-93)	5/8inch
Number of Strands per Tuft	6	Stitches per 10cm	13±1
Stitches per m2 (ISO 1763)	8190±100	Total Yarn Weight (ISO 2549)	1100g/sqm
BACKING			
Primary Backing	100% UV Stablized PP + Polyester Fiber + Mesh Scrim inlay		
Weight (ASTM D5848)	250g/sqm		
Secondary Backing	Latex		
Weight (ASTM D5848)	1150g/sqm±10%		
Total Carpet Weight (ASTM D5848)		2500g/sqm ±100g	
Carpet			
Carpet Tuft Withdrawal (EN 13744 & ISO 4919)	≥ 30N	Water Permeability of Carpet (EN 12616)	≥ 2000 mm/hr
INFILL REQUIREMENTS			
Sand			
Particle Size Range	0.5 – 1.0 mm	Particle shape	C1
Bulk Density	1500 Mg/cm3	Application rate	21 kg/m2
SBR			
Particle size range	0.8 – 2.0 mm	Particle shape	A2
Bulk density	390 Mg/cm3	Application rate	17 kg/m2