

Technical Data Energy C3N



PRODUCT SPECIFICATION			
Product Name	Energy C3N-4004B120-BL	Application	Sports
Model	Energy C3N-4004B120-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)	0.2-0.6mm	Tape thickness (ASTM D3218)	N/A
Tape Width:	1.4-1.7mm	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)	100°C
CARPET CHARACTERISTICS			
TURF			
Pile Height (ISO 2549)	40mm±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)	900g/sqm±10%
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)	2300g/sqm±10%		
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	B2
Bulk Density	1460 Mg/cm3	Application rate	15-20 kg/m2
SBR			
Particle size range	0.5 - 2.5 mm	Particle shape	A2
Bulk density	450 Mg/cm3	Application rate	15 kg/m2

Note **: Sand infills quantity is according to the pitch size. 18kg/m2 is for big FIFA Field. 25kg/m2 is for small field.

We reserve the right to modify these specifications. Version 1 - 1911

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