TECHNICAL DATA SHEET

BX SERIES

Product	Biaxial (BX)
Composition	Polypropylene
Main Function	Reinforcement

Property	Test Method	Texel BX1515	Texel BX2020	Texel BX2525	Texel BX3030
Physical					
Aperture dimensions (MD / CD) (Nominal)	-	38 mm / 38 mm			
Minimum rib thickness (MD / CD) (Nominal)	-	0.9 mm / 0.6 mm	1.1 mm / 0.8 mm	1.5 mm / 1.5 mm	2.2 mm / 1.5 mm
Mechanical					
Tensile strength @ 2% strain (MD / CD)	ASTM D6637 Method A	5 kN/m / 5 kN/m	6.5 kN/m / 6.5 kN/m	9.5 kN/m / 10.5 kN/m	10.5 kN/m / 10.5 kN/m
Tensile strength @ 5% strain (MD / CD)	ASTM D6637 Method A	11 kN/m / 11 kN/m	13 kN/m / 13 kN/m	18 kN/m / 20 kN/m	21 kN/m / 21 kN/m
Ultimate tensile strength	ASTM D6637 Method A	15 kN/m / 15 kN/m	20 kN/m / 20 kN/m	25 kN/m / 25 kN/m	30 kN/m / 30 kN/m
Junction efficiency (1)	ASTM D7737	93%			
Overall flexural rigidity	ASTM D7748 / D7748M	325 000 mg-cm	700 000 mg-cm	875 000 mg-cm	2 000 000 mg-cm
Aperture Stability (2)	ASTM D7864 / D7864M	0.38 m-N/deg	0.45 m-N/deg	0.45 m-N/deg	0.75 m-N/deg
Durability					
Resistance to installation damage (3)	ASTM D5818 / D6637	95% SC / 93% SW / 90% GP			
Resistance to long term degradation (4)	EPA 9090	100%			
Resistance to UV degradation (5)	ASTM D4355	98%			
Dimensions					
Width	-	3.8 m			
Length	-	100 m		50 m	

This technical information comes from the manufacturer and was transcribed by Texel. All values are MARV except when specified
1 - Load transfer capability determined in accordance with ASTM D7737.
2 - Resistance to in-plane rotational movement measured in accordance with ASTM D7864/D7864M.
3 - Resistance to loss of load capacity or structural integrity when subjected to mechanical installation stress in clayey sand (SC), well graded sand (SW), and crushed stone classified as poorly graded gravel (GP). The geogrid shall be sampled in accordance with ASTM D5818 and load capacity shall be determined in accordance with ASTM D6637.
4 - Resistance to loss of load capacity or structural integrity when subjected to chemically aggressive environments in accordance with EPA 9090 immersion testing.
5 - Resistance to loss of load capacity or structural integrity when subjected to 500 hours of ultraviolet light and aggressive weathering in accordance with ASTM D4355.

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