

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)	-	39 mm / 39 mm			
Average rib thickness (MD / CD)	-	1 mm / 1 mm	1.3 mm / 1.3 mm	1.5 mm / 1.5 mm	2 mm / 2 mm
Average rib width (MD / CD)	-	3 mm / 3 mm	3.3 mm / 3.3 mm	3.5 mm / 3.5 mm	4 mm / 4 mm
Minimum carbon black content	ASTM D4218	2%			
Mechanical					
Tensile strength @ 2% strain (MD / CD)	ASTM D6637	6.5 kN/m / 7.0 kN/m	8 kN/m / 8 kN/m	9.5 kN/m / 10.5 kN/m	12 kN/m / 12 kN/m
Tensile strength @ 5% strain (MD / CD)	ASTM D6637	11.5 kN/m / 12.5 kN/m	14 kN/m / 14 kN/m	18 kN/m / 20 kN/m	21.6 kN/m / 22 kN/m
Ultimate tensile strength	ASTM D6637	16 kN/m / 16 kN/m	19 kN/m / 19 kN/m	25 kN/m / 25 kN/m	30 kN/m / 30 kN/m
Junction strength	GRI-GG2	15.5 kN/m / 16 kN/m	19 kN/m / 19 kN/m	22.5 kN/m / 23.4 kN/m	27.9 kN/m / 27.9 kN/m
Junction efficiency (MD / CD)	-	-	-	90% / 94%	93% / 93%
Flexural Stiffness/Rigidity	ASTM D7748	960 g-cm / 273 g-cm	1585 g-cm / 930 g-cm	1312 g-cm / 875 g-cm	4806 g-cm / 2619 g-cm
Aperture Stability ⁽¹⁾	-	2.4 kg-cm/deg	3.4 kg-cm/deg	4.5 kg-cm/deg	5.7 kg-cm/deg
Radial Stiffness at Low Strain ⁽²⁾	ASTM D6637-01	209.9 kN/m	284.9 kN/m	329.9 kN/m	384.9 kN/m
Multi-Axial tension test I. Vessel pressure at rupture II. Axisymmetric break resistance strain III. Average deflection at rupture"	ASTM D5617	56.5 kPa 9.1% 114 mm"	73.1 kPa 8.3% 109 mm"	89.6 kPa 8.2% 107 mm"	107.6 kPa 7.3% 102 mm"
Resistance to UV degradation	ASTM D4355	100%			
Dimensions					
Width	-	3.95 m			
Length	-	50 m			

This technical information comes from the manufacturer and was transcribed by Texel. Properties are based on the minimum average roll value (MARV) unless otherwise specified.

MD = Machine direction / CD = Cross direction

1- In-plane torsional rigidity measured by applying a moment to the central junction of a 225mm x 225mm specimen restrained at its perimeter in accordance with U.S. Army Corps of Engineers Methodology for measurement of Torsional Rigidity (Kinney, T.C. Aperture Stability Modulus ref 3, 3.1.2000) .

2- Radial stiffness is determined from tensile stiffness measured in any in-plane axis from testing in accordance with ASTM D6637-01.

Revision : 2024-04-10

Texel reserves the right modify existing properties contingent on the evolution of technical knowledge. Each user is invited to verify if this document represents the most recent update. Texel offers no guarantee and assumes no responsibility regarding usage, installation and/or convenience of usage. Texel must be informed of all product nonconformity prior to installation. Responsibility is limited to replacement of non-compliant or defective product.

