

TECHNICAL DATA SHEET

TX SERIES



Product	Triaxial (TX)
Composition	Polypropylene
Main Function	Reinforcement

Property	Test Method	TEXEL TX2	TEXEL TX140	TEXEL TX160	TEXEL TX5	TEXEL TX7	TEXEL TX150L	TEXEL TX190L
Physical								
Rib shape	-	Rectangular						
Aperture shape	-	Triangular						
Rib Dimensions								
Rib pitch (Longitudinal & diagonal) ⁽¹⁾	-	33 mm	40 mm		40 mm		57 mm	60 mm
Mid-rib depth (Diagonal) ⁽¹⁾	-	1.15 mm	1.2 mm	1.6 mm	1.3 mm	2.0 mm	-	
Mid-rib depth (Longitudinal) ⁽¹⁾	-	1.27 mm	1.2 mm	1.4 mm	1.2 mm	1.6 mm	-	
Mid rib width (Diagonal) ⁽¹⁾	-	-	1.1 mm	1.0 mm	0.9 mm	1.0 mm	-	
Mid rib width (Longitudinal) ⁽¹⁾	-	-	1.1 mm	1.2 mm	1.2 mm	1.3 mm	-	
Mechanical								
Junction efficiency ⁽²⁾	ASMT D6637	90%	93%		-		93%	
Radial stiffness at low strain (0.5%) ⁽³⁾	ASTM D6637	-	225 kN/m	300 kN/m	-		325 kN/m	350 kN/m
Estimated isotropic stiffness ratio ⁽⁴⁾	-	0.6	-		-		0.6	
Overall flexural rigidity	ASTM D7748	-	-		-		750 000 mg-cm	2 000 000 mg-cm
Durability								
Resistance to chemical degradation ⁽⁵⁾	EPA 9090	100%	100%		-		100%	
Resistance to UV light and weathering ⁽⁶⁾	ASTM D4355	70%	70%		-		70%	
Dimensions								
Standard Width and Length	-	3.8 m x 100 m						

This technical information comes from the manufacturer and was transcribed by Texel. Properties are minimum average roll value except when specified otherwise.

1- Nominal dimensions

2- Load transfer capability determined in accordance with ASTM D6637 and ASTM D7737 and expressed as a percentage of ultimate tensile strength.

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

4- The ratio between the minimum and maximum observed values of radial stiffness at 0.5% strain, measured on rib and midway between rib directions.

5- Resistance to loss of load capacity or structural integrity when subjected to chemically aggressive environments in accordance with EPA 9090 immersion testing.

6- 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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