

TX SERIES

TECHNICAL DATASHEET

PARTNER
Tensor

Geomembrane (GMB) type	Triaxial (TX)
Composition	Polypropylene
Main function	Reinforcement

Property	Method	TX130S	TX140	TX160	TX5	TX7	TX150L	TX190L
Physical								
Rib shape	-	Rectangular	Rectangular		Rectangular		Rectangular	
Aperture shape	-	Triangular	Triangular		Triangular		Triangular	
Rib dimensions								
Rib pitch (Longitudinal & diagonal) ⁽¹⁾	-	33 mm	40 mm		40 mm		57 mm	60 mm
Mid-rib depth (Diagonal) ⁽¹⁾	-	-	1.2 mm	1.6 mm	1.3 mm	2.0 mm	-	
Mid-rib depth (Longitudinal) ⁽¹⁾	-	-	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	93%	93%		-		93%	
Radial stiffness at low strain (0.5%) ⁽³⁾	ASTM D6637	200 kN/m	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	500 000 mg-cm	-		-		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								
Width	-	4 m	4 m		4 m		4 m	
Length	-	75 m	75 m		75 m		75 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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