

TX SERIES

TECHNICAL DATASHEET

PARTNER
Tensor

Geogrid (GGR) type	Triaxial (TX)
Composition	Polypropylene
Main function	Reinforcement

Property	Method	TX2	TX3	TX140	TX160	TX5	TX7	TX150L	TX190L
Physical									
Rib shape	-	Rectangular							
Aperture shape	-	Triangular							
Rib dimensions									
Rib pitch (Longitudinal & diagonal) ⁽¹⁾	-	33 mm	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%		-		93%	
Tensile modulus (2% strain)	ASTM D6637	175 kN/m							
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	-		-		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%		-		100%	
Resistance to UV light and weathering ⁽⁶⁾	ASTM D4355	70%	70%	70%		-		70%	
Dimensions									
Standard Width and Length	-	4 m x 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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