



E-TLYA 3612

Fiber Type: E-Glass
 Architecture: 0/60/-60 Warp Triaxial
 Dry Thickness: 0.049 in. / 1.24 mm
 Total Weight: 37.64 oz/sq.yd / 1276 g/sq.m

VECTORFUSION
INFUSION-SPECIFIC REINFORCEMENTS

Roll Specifications

Roll Width: 50 in / 1270 mm
 Roll Weight: 201 lb / 91 kg
 Roll Length: 60 yd / 55 m

Fiber Architecture Data

0 ° : 12.80 oz/sq.yd / 434 g/sq.m
 60 ° : 11.82 oz/sq.yd / 401 g/sq.m
 90 ° : n/a
 -60 ° : 11.82 oz/sq.yd / 401 g/sq.m
 A-Glass Veil : 1.20 oz/sq.yd / 41 g/sq.m

1: Packaging: box or bag.
 2: Weights do not include polyester stitching.

Laminated Properties

0 °

0 °

Laminate Weight

E-TLYA 3612
Resin Infused

Fiber	0.26 lb/sq.ft	1.28 kg/sq.m
Resin	0.11 lb/sq.ft	0.55 kg/sq.m
Total	0.37 lb/sq.ft	1.83 kg/sq.m

In-Plane Stiffness, "EA"

E-TLYA 3612
Resin Infused

(EA)x	117,546 lb/in	20,585 N/mm
(EA)y	114,241 lb/in	20,006 N/mm
(GA)xy	43,518 lb/in	7,621 N/mm

Physical Properties

	E-TLYA 3612 Resin Infused	
Density	1.08 oz/cu.in	1.87 g/cc
Fiber Content	70% by Wt.	53% by Vol.
Thickness	0.038 in	1.0 mm

Ultimate Stress

	E-TLYA 3612 Resin Infused	
Long. Ten.	57.8 KSI	398.8 MPa
Long. Comp.	57.8 KSI	398.8 MPa
Trans. Ten.	29.7 KSI	204.7 MPa
Trans. Comp.	29.7 KSI	204.7 MPa
In-Plane Shear	22.6 KSI	156.0 MPa
Long. Flex.	58.0 KSI	400.2 MPa
Trans. Flex.	28.2 KSI	194.5 MPa

Notes:

- 1: Laminate made with poly / vinyl ester resin blend.
- 2: All properties are given assuming a symmetric or quasisymmetric laminate schedule.

Ultimate In-Plane Load

	E-TLYA 3612 Resin Infused	
Long. Ten.	2,225 lb/in	390 N/mm
Long. Comp.	2,225 lb/in	390 N/mm
Trans. Ten.	1,142 lb/in	200 N/mm
Trans. Comp.	1,142 lb/in	200 N/mm
In-Plane Shear	870 lb/in	152 N/mm

Laminate Modulii

	E-TLYA 3612 Resin Infused	
Ex	3.06 MSI	21.06 GPa
Ey	2.97 MSI	20.47 GPa
Gxy	1.13 MSI	7.80 GPa
Ex,flex.	2.90 MSI	20.01 GPa
Ey,flex.	2.82 MSI	19.45 GPa



3500 Lakewood Dr. Phenix City, AL 36867 tel. 334 291 7704 fax. 334 291 7743

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Disclaimer:

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