

Parabeam Industrie ParaTank 4.5 3D Glass Fabric

Category : Ceramic , Glass , Glass Fiber , Other Engineering Material , Composite Core Material , Composite Fibers

Material Notes:

Parabeam® 3D Glass Fabric is a fabric woven out of a 100% E-glass yarn and consists of two decklayers bonded together by vertical piles in a sandwich structure. These piles are woven into the decklayers thus forming an integral sandwich structure. When the Parabeam® is impregnated with a thermoset resin, the fabric absorbs the resin and due to the capillary forces of the piles, the fabric rises to the preset height. In this one-step process a lightweight and strong sandwich laminate is formed that offers excellent mechanical properties.

Parabeam® can be used for many applications in the composite industry while offering multiple advantages against traditional sandwiches and solid laminates such as woods, foams, balsa, honeycombs and more. Information provided by the manufacturer, Parabeam Industrie, The Netherlands.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Parabeam-Industrie-ParaTank-45-3D-Glass-Fabric.php

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	≥ 5.40 MPa	≥ 783 psi	ASTM C365
	7.00 MPa	1020 psi	Typical; ASTM C365
Shear Modulus	≥ 0.0450 GPa	≥ 6.53 ksi	ASTM C273
	0.0700 GPa	10.2 ksi	Typical; ASTM C273
Shear Strength	≥ 1.30 MPa	≥ 189 psi	ASTM C273
	2.90 MPa	421 psi	Typical; ASTM C273

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0600 W/m-K	0.416 BTU-in/hr-ft ² -°F	DIN 52616

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