

SHEERGARD® Transonite™

Transonite™ is a SHEERGARD® thermoplastic composite designed for use in electromagnetic applications. It can be formed to any curvature and connected via a symmetrical joint system for use in larger applications.

The composite is 100% recyclable and made up of PETG/Glass skins, PET (polyethylene terephthalate) glass 3D fibers, PET foam and a PTFE (polytetrafluoroethylene) coated fiberglass exterior surface.

The Transonite™ panel is resistant to delamination through its 3 dimensional fiber reinforcements and fully retains its hydrophobicity over 20 years through its PTFE exterior surface.

Typical Properties

Property	Value	Test Method
Panel Weight (lbs/ft ²)	1.060 nominal	-
Panel Thickness (in)	1.050 nominal	-
Tensile Strength (psi)		
Edgewise	38,600	ASTM D3039-08
Flatwise	164	ASTM C297
Compression Strength (psi)		
Edgewise, at peak	12,189	ASTM C364
Flatwise, at 10% strain	87	ASTM C365
Core Shear		
Strength (psi)	68	ASTM C273
Maximum Load (lbs)	546	ASTM C273
Flexural Strength (lbs/in)	40	ASTM D5467 (M)
Delamination Resistance, Facing Cleavage	86	ASTM E2004
Electromagnetic Properties (3 GHz)		
Dielectric Constant	1.409	ASTM D2520-C
Loss Tangent / Dissipation Factor	0.019	ASTM D2520-C
Incombustibility (seconds)	2 to flameout	NFPA 701
Hydrophobic Contact Angle (degrees)	100 nominal	ASTM C813
Environmental	Full retention	MIL.STD.810F

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