

CoreLite® PVC HT

Product Data Sheet

Last Revised: December 14, 2015

CoreLite® PVC HT (High Temperature) is a closed-cell, cross-linked polymer PVC foam formulated for resistance to high temperatures, durability, rigidity and strength. It is compatible with multiple resins and adhesives.

It has a very low water absorption rate and excellent chemical resistance. Ideal for many lightweight composite applications that will be exposed to high temperatures

PROCESSING

- Hand lamination / spray lay-up
- Vacuum infusion
- Resin injection
- Adhesive bonding
- Pre-preg processing (up to 140 °C, 285 °F)
- Thermoforming



APPLICATIONS

Marine: hulls, decking, bulkheads, interiors superstructures

Transportation: floors, ceilings, doors, interiors, partition walls, sidewalls

Wind energy: rotor blades, covers, casings

Aerospace: fuselage and wind components, kitchen trolleys, galleys

Industrial: Covers, Containers, Tanks, Sporting goods, Tooling and Molds

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CoreLite® PVC HT

Mechanical Properties for CoreLite® PVC HT				
TEST STANDARDS		Units (Imperial)	60	80
Density	ASTM D1622	Lbs. / cu.ft	3.75	5
Compressive Strength	ASTM D1621-10	psi	131	212
Compressive Modulus	ASTM D1621-10	psi	6382	9282
Tensile Strength	ASTM D1623	psi	290	406
Tensile Modulus	ASTM D1623	psi	14649	20595
Shear Strength	ASTM C273	psi	113	168
Shear Modulus	ASTM C273	psi	2901	4351
Shear elongation at break	ASTM C273	%	27	27
Thermal conductivity at 75 °F	ASTM C-177	BTU.in/ft2.hr.°F	0.21	0.25
Standard Sheet (Plain)	Length	inch	94.49	84.65
	Width	inch	44.10	39.57
	Thickness	inch	1/8 to 2 3/4	1/8 to 2 3/4

Values shown are nominal average determined from independent laboratory and house testing. Tests are perpendicular to the plane.

Color:	Yellow	Pink
Density Tolerance:	+ / - 10%	
Water absorption	< 1%	
Processing temperature:	285 °F	

Disclaimer: The information and data presented herein are subject to revision. CoreLite Inc. reserves the right to release replacement data. The data presented is derived from in house and independent testing. Calculations should be verified with physical test. The data is provided without liability to CoreLite, Inc. or its agents and does not constitute warranty or representation in respect to the material or its use.

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Mechanical Properties for CoreLite® PVC HT				
TEST STANDARDS		Units (metric)	60	80
Density	ASTM D1622	Kg. / m ³	60	80
Compressive Strength	ASTM D1621-10	MPa	0,90	1,46
Compressive Modulus	ASTM D1621-10	MPa	44	64
Tensile Strength	ASTM D1623	MPa	2,00	2,80
Tensile Modulus	ASTM D1623	MPa	101	142
Shear Strength	ASTM C273	MPa	0,78	1,16
Shear Modulus	ASTM C273	MPa	20	30
Shear elongation at break	ASTM C273	%	27	27
Thermal conductivity at 24 °C	ASTM C-177	W/m.K	0,031	0,036
Standard Sheet (Plain)	Length	mm	2400	2150
	Width	mm	1120	1005
	Thickness	mm	3 to 78	3 to 75

Values shown are nominal average determined from independent laboratory and house testing. Tests are perpendicular to the plane.

Color:	Yellow	Pink
Density Tolerance:	+ / - 10%	
Water absorption	< 1%	
Processing temperature:	140 °C	

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