

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

USA - Florida
1060 E. 30 St.
Miami, FL 33013, USA
T +1 (305) 921-4292
F +1 (305) 691-9094

USA - Texas
5101 Norwood Road
Dallas, TX 75247, USA
T +1 (214) 905-4359
F +1 (214) 905-4365

Ecuador
Km. 24 Via Daule
Guayaquil, Ecuador
T +593 4-226-7008
F +593 4-226-7007

Europe
Via Enrico Fermi, ZA1
46011 – Acquanegra s/C (MN), Italy
T +39 3398 107391
F +39 0376 727248

CoreLite® PVC HT

Mechanical Properties for CoreLite PVC HT			
TEST STANDARDS	Units (Imperial)	HT 60	HT 80
Density per ASTM D1622	Lbs. / cu.ft	3.75	5
Compressive Strength per ASTM D1621-10	psi	130.53	211.76
Compressive Modulus per ASTM D1621-10	psi	6381.66	9282.42
Tensile Strength per ASTM D1623	psi	290.08	406.11
Tensile Modulus per ASTM D1623	psi	14648.8	20595.4
Shear Strength per ASTM C273	psi	113.13	168.24
Shear Modulus per ASTM C273	psi	2900.75	4351.13
Shear elongation at break per ASTM C273	%	27	27
Thermal conductivity at room temperature	BTU.in/ft ² .hr.°F	0.21	0.25
Standard Sheet dimensions	inches	44.10 x 94.49	39.57 x 84.65
Sheet Thickness	inches	from 1/8 to 3	from 1/8 to 3

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

Color	Pink	Yellow
Density Tolerance:	+ / - 10%	

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)	HT 60	HT 80
Density per ASTM D1622	Kg. / M3	60	80
Compressive Strength per ASTM D1621-10	MPa	0,90	1,46
Compressive Modulus per ASTM D1621-10	MPa	44	64
Tensile Strength per ASTM D1623	MPa	2,00	2,80
Tensile Modulus per ASTM D1623	MPa	101	142
Shear Strength per ASTM C273	MPa	0,78	1,16
Shear Modulus per ASTM C273	MPa	20	30
Shear elongation at break per ASTM C273	%	27	27
Thermal conductivity at room temperature	W/m.K	0,031	0,036
Standard Sheet dimensions	mm	1120 x 2400	1005 x 2150
Sheet Thickness	mm	from 3 to 78	from 3 to 75

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Color	Pink	Yellow
Density Tolerance:	+ / - 10%	

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