

AIREX® is a unique closed cell, cross-linked polymer foam that combines high stiffness and strength to weight ratios with superior toughness. It is non-friable, contains no CFC's, has negligible water absorption, and provides an excellent resistance to chemicals. It is ideally suited as a core material for a wide variety of light-weight sandwich structures subjected to both static and dynamic loads in service.

AIREX® C70.75 Plain sheets are 1020mm x 2180mm. A fine cell structure offers an excellent bonding surface that is compatible with most resins and manufacturing processes. AIREX® has high strength

and stiffness to weight ratios, has the highest elongation in a cross-linked PVC ensuring good impact strength, high fatigue resistance, good sound and thermal insulation, and good styrene resistance.

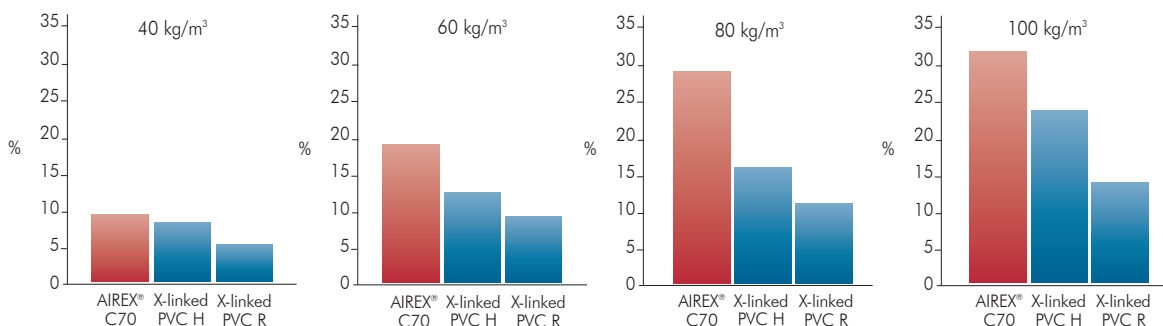
Typical applications include marine hulls, decks, superstructures and interiors: road and rail floors, partition walls, doors, interiors and side skirts: wind energy rotor blades, nacelles and turbine generator housings; aircraft, galley carts; recreation surfboards, snowboards and wakeboards; industrial tanks, tooling, ductwork, containers and covers.

AIREX® C70.75 PROPERTIES*

Nominal Density	(ISO 845)	80 kg/m ³	5 lb/ft ³
Tensile Strength in the plane	(DIN 53455)	2.0 MPa	290 psi
Tensile Modulus in the plane	(DIN 53457)	63 MPa	9140psi
Compressive Strength perpendicular to the plane	(ISO 844)	1.3MPa	190psi
Compressive Modulus perpendicular to the plane	(DIN 53421)	83MPa	12 ksi
Shear Strength	(ISO 1922)	1.2 MPa	175 psi
Shear Modulus	(ASTM C-393)	30.0 MPa	4350 psi
Shear Elongation at break	(ISO 1922)	23%	
Thermal Conductivity @ 24°C(75°F)	(ISO 8301)	0.033 W/m.°K	0.23 Btu.in/hr.ft ² .°F

* Other densities and configurations are available in the AIREX® range

SHEAR ELONGATION AT BREAK



PROCESSING

AIREX®C70.75 is suitable for contact molding (hand/spray), RTM, adhesive bonding, pre-preg processing and vacuum infusion processes, and exhibits low resin absorption.

Order Code*	Description	Nominal Weight kg/m ²
C70.75PL010	10mm Airex [®] plain PVC cross-linked foam	0.80
C70.75PL012	12mm Airex [®] plain PVC cross-linked foam	0.96
C70.75PL015	15mm Airex [®] plain PVC cross-linked foam	1.20
C70.75PL020	20mm Airex [®] plain PVC cross-linked foam	1.60
C70.75PL025	25mm Airex [®] plain PVC cross-linked foam	2.00
C70.75PL030	30mm Airex [®] plain PVC cross-linked foam	2.40
C70.75PL035	35mm Airex [®] plain PVC cross-linked foam	2.80
C70.75PL040	40mm Airex [®] plain PVC cross-linked foam	3.20

*Alternative densities and configurations are available in the AIREX[®] range on request
 Sheet size - 1020mm x 2180mm

STORAGE

AIREX[®] structural foam products should be stored flat, and kept dry and clean.

AIREX[®] C70.75 is certified by the following marine code authorities:
 ABS (American Bureau of Shipping)
 Det Norske Veritas Grade 1
 Germanischer Lloyd
 Lloyd's Register

AIREX is a registered trademark of ALCAN composites.

NOTE Our products are intended for sale to industrial and commercial customers. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Nothing herein shall constitute a warranty, express or implied, including any warranty or merchantability or fitness, nor is protection from law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of our materials and in no event shall we be liable for special or consequential damages. 25/07/06



ATL composites Pty Ltd
 Tel (+61) 7 5563 1222
 Fax (+61) 7 5563 1585
 info@atlcomposites.com
 www.atlcomposites.com