

Product Data Sheet: CarbonFoam PVC 60



CarbonFoam PVC60 lightweight, closed cell, polymer foam that is non-friable, contains no CFC's, provides excellent resistance to chemicals, and has negligible water absorption.

PVC60 combines excellent stiffness/strength to weight ratio with superior toughness. The fine cell structure offers a great bonding surface and is compatible with most resins and manufacturing processes.

CarbonFoam PVC60 is ideally suited as a lightweight core material for a variety of sandwich structures subjected to both static and dynamic loads.

CarbonFoam PVC60 can be ordered plain, scored/scrimmed, perforated, or double contoured. It is closed-cell polymer foam that has very low moisture absorption and has great physical properties when compared to other foams with similar density.

CHARACTERISTICS

- ◆ Self-extinguishing
- ◆ Low resin absorption
- ◆ Great impact strength
- ◆ Good styrene resistance
- ◆ Great strength/stiffness to weight ratio
- ◆ High insulation properties (sound and thermal)

INDUSTRIES

- ◆ **Marine:** Superstructures, decks, hulls, bulkheads
- ◆ **Industrial:** Tanks, covers, ductwork, tooling, container
- ◆ **Wind Power:** Nacelles, rotor blades
- ◆ **Recreational:** Kayaks, canoes, snowboards, skis, surf/wakeboards
- ◆ **Road and Rail:** Floors, doors, side skirts, roof panels, partition walls
- ◆ **Aerospace:** Radomes, interiors, fuselage, wings

PROCESSING

- ◆ Adhesive bonding
- ◆ Compression Molding
- ◆ Thermoforming
- ◆ Contact molding
- ◆ Vacuum Infusion
- ◆ Resin Injection

All tests carried out by independent laboratory. This information is provided in good faith and is subject to modifications without prior notification. It does not constitute a commitment, neither a contractual document. Carbon-Core Corp will not assume any liability for use or misuse of data presented herein. Assessment of suitability is the responsibility of end user only.

Mailing Address: PO Box 332, Keswick, VA 22947
Warehouse: 48 Zion Station Court, Troy, VA 22947
Tel: 434-510-9909 info@carbon-core.com

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Tests		Imperial Units	Metric Units
Compressive Strength	ISO 844	148psi	1.02 MPa
Compressive Modulus	ISO 844	6817psi	47 MPa
Tensile Strength	ASTM D1623	319psi	2.19 MPa
Tensile Modulus	ASTM D1623	12615psi	86.89 MPa
Shear Strength	ASTM C273	119psi	0.82 MPa
Shear Modulus	ASTM C273	3771psi	26 MPa
Elongation at Break	N/A	13%	13%
Poisson's Ratio	N/A	0.32	0.32
Insulation R Value	N/A	3.0	3.0
Water Absorption	ASTM C272	0.015 lb/ft ²	0.073 kg/m ²
Flammability	ASTM D776	Self Extinguishing	Self Extinguishing
Density	N/A	4.0 lb/ft ³	64 kg/m ³

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