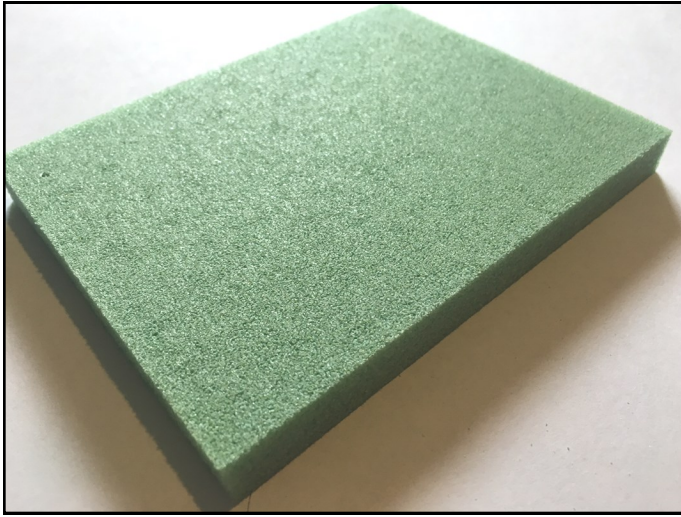


Product Data Sheet: PVC 60, 80, 100, 130, 200



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

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, etc.
- ◆ **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 from 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 22974
Tel: 434-510 7115 info@carbon-core.com

Product Data Sheet:

CarbonFoam PVC 60, 80, 100, 130, 200

Tests		PVC60	PVC80	PVC100	PVC130	PVC200
Compressive Strength (MPa)	ISO 844	0.92	1.36	1.86	3.07	5.26
Compressive Modulus (MPa)	ISO 844	69	92	134	162	296
Tensile Strength (MPa)	ASTM D1623	1.54	1.92	2.69	4.2	5.27
Tensile Modulus (MPa)	ASTM D1623	65	87	125	155	287
Shear Strength (MPa)	ASTM C273	0.95	1.37	1.64	2.57	3.88
Shear Modulus (MPa)	ASTM C273	19	28	35	48	66
Elongation at Break (%)	ISO 1922	27	30	34	45	48
Water Absorption (%)	ASTM C272	1	1	1	1	1
Flammability	ASTM D776	Self Extinguishing	Self Extinguishing	Self Extinguishing	Self Extinguishing	Self Extinguishing
Density (kg/m ³)	ISO 845	64	82	103	135	215

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 from 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 22974
Tel: 434-510 7115 info@carbon-core.com