

## Product Data Sheet: CarbonFoam PU2# CrioP



CarbonFoam PU2# CripP comes from a group of rigid foams that are suitable as core materials for sandwich panels and represents a first choice for all applications requiring high heat insulation efficiency.

Standard sheets size for this foam is 48"96" and comes in any thickness required. CarbonFoam PU2# CrioP can be ordered as plain, scored/scrimmed, perforated and double contoured. For any special requests, please see our contact info listed below this page.

### CHARACTERISTICS

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

### 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 from use or misuse of data presented herein. Assessment of suitability is the responsibility of end user only.

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Tests		English Units	Metric Units
Nominal Density	N/A	2 lb/ft <sup>3</sup>	35 kg/m <sup>3</sup>
Compressive Strength	ASTM D1621	34psi	0.23 MPa
Compressive Modulus	ASTM D1621	870psi	6 MPa
Shear Strength	ASTM C273	34psi	0.23 MPa
Shear Modulus	ASTM C273	551psi	3.8 MPa
Flexural Strength	ISO 178	58psi	0.4 MPa
Flexural Modulus	ISO 178	769psi	5.3 MPa
Closed Cell Content	ASTM D2856	>95%	>95%
HDT	ASTM D2856	302°F	150°C
Water Absorption	ASTM C272	0.0051 lb/ft <sup>2</sup>	0.025 kg/m <sup>2</sup>
Fire Performance	N/A	B3	B3
Service Temperature	N/A	-292°F to 248°F	-180 to 120°C
Dimensions (W x L x H)	N/A	40" x 79" / 48" x 98"	1000 x 2000 / 1200 x 2500 mm
Standard Thickness	N/A	0.4" ~ 8"	10 ~ 200 mm

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