

CLOSED CELL PVC FOAM



Product Description

75kg/m³ Closed Cell PVC Foam Core sheets with a nominal density of 75kg/m³ are suitable for use as a core material in a wide range of composites applications including flat sheet and moulded parts.

Drilled and grooved version of our EasyCell 75 foam core material allows this foam core to be used as a core material in a resin infused laminate without the foam preventing resin from passing through the core to the reinforcement underneath. Drill holes allow the resin to pass easily through the foam whilst the grooves on the underside act to distribute the resin and aid flow on the underside.

Our EasyCell75 Closed Cell PVC Foam is one of the simplest core materials to use. It is relatively inexpensive, offers excellent mechanical performance and is compatible with all standard resin systems including polyester, vinylester and epoxy. If you're looking for a simple yet effective way to stiffen your composite parts whilst minimising weight and cost then EasyCell75 structural foam is a great choice.

Recommended Uses

As a high performance, low cost core material EasyCell75 is suitable for a wide range of application including:

- Aero model making
- Recreation equipment such as skis, snowboards, kiteboards and wakeboards
- Motorsport body panels, floors and splitters
- Aircraft interiors, fuselages
- Architectural panels, cladding, enclosures
- Marine hulls, decks, hatches and floors
- Wind energy turbine blades, enclosures

Key Features

- Almost no water absorption
- Excellent strength to weight ratio
- Good thermal insulation
- Fire retardant (self extinguishing)
- Will not rot
- Good styrene resistance
- Good impact and fatigue resistance
- Drilled version for resin transfer, grooved for mould-side distribution of resin

Specification & Properties

The following table lists the specification and properties for the EasyCell 75 Closed Cell PVC Foam.

Property	Method	Units	Result
Density	ISO845	Kg/m ³	75.0
Compressive Strength	ISO844	MPa	1.33
Compressive Modulus	ISO844	MPa	72.5
Tensile Strength	ISO527-2	MPa	1.89
Tensile Modulus	ISO527-2	MPa	75.0
Shear Strength	ISO1922	MPa	1.09
Shear Modulus	ASTMC393	MPa	27.75
Shear Elongation at Break	ISO1922	MPa	20.25
Thermal Conductivity at 20 °C	ISO8301	W/mK	0.033
Water Absorption	-	%	1
Colour			Green
Max Service Temperature	-	°C	80

Disclaimer

This data is not to be used for specifications. Values listed are for typical properties and should not be considered minimum or maximum.

Our technical advice, whether verbal or in writing, is given in good faith but Easy Composites Ltd gives no warranty; express or implied, and all products are sold upon condition that purchasers will make their own tests to determine the quality and suitability of the product for their particular application and circumstances.

Easy Composites Ltd shall be in no way responsible for the proper use and service of the product, nor for the safeguarding of personnel or property, all of which is the duty of the user. Any information or suggestions are without warranty of any kind and purchasers are solely responsible for any loss arising from the use of such information or suggestions. No information or suggestions given by us shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.

Before using any of our products, users should familiarise themselves with the relevant technical and safety datasheets provided by Easy Composites Ltd.

AeroFilm™ is a trademark of Easy Composites Ltd.

Easy Composites Ltd

Unit 39, Park Hall Business Village, Longton, Stoke on Trent, Staffordshire, ST3 5XA, United Kingdom.