

CPC - Vycom CELTEC MARINE™ Expanded Foam PVC Polyvinyl Chloride

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Celtec Marine is made from rigid expanded foam polyvinyl chloride (PVC) material whose combination of features makes it ideal for wood trim and plywood replacement in boat manufacturing. Its closed cell structure does not absorb water and acts as a water barrier. Because of its staple pull and screw pull strength, Celtec Marine is ideal for applications in marine upholstery, seat backs, seat bottoms, trim for rough fiberglass openings, brackets, cabinets, draws etc. **FEATURES AND BENEFITS** Light weight- Celtec marine combines lightweight with strength to reduce weight in boat construction. Strength- Celtec Marine has a high strength to weight ratio that makes it ideal for many boat building applications. Superior workability- Celtec marine is easy to form, cut, glue, screw, nail, and staple. Flammability- Celtec Marine meets UL guidelines, is self extinguishing and has a flame spread of 20. Thermal conductivity- Celtec Marine is an excellent insulator. Weatherability and water resistance- Celtec Marine is durable and will not absorb water. Density- Celtec Marine is lighter than water and it floats. Safety- Celtec Marine is Lead, cadmium, barium and zinc free. Stability- Celtec Marine will not rot and it is cleanable and retains its color. Economical- Celtec Marine is designed to last and it is economical to use. Information provided by Compression Polymers Corp - Vycom

Order this product through the following link:

http://www.lookpolymers.com/polymer_CPC-Vycom-CELTEC-MARINE-Expanded-Foam-PVC-Polyvinyl-Chloride.php

Physical Properties	Metric	English	Comments
Density	0.550 g/cc	0.0199 lb/in ³	ASTM D792
Water Absorption	0.15 %	0.15 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	15.55 MPa	2256 psi	ASTM D638
Tensile Modulus	0.993 GPa	144 ksi	ASTM D638
Flexural Strength	22.95 MPa	3329 psi	ASTM D790
Flexural Modulus	0.9944 GPa	144.2 ksi	ASTM D790
Charpy Impact, Unnotched	6.10 J	4.50 ft-lb	[ft-lb/in]; ASTM D256
Gardner Impact	11.7 J	8.60 ft-lb	ASTM D4228

Thermal Properties	Metric	English	Comments
CTE, linear	57.6 μm/m-°C	32.0 μin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	65.6 °C	150 °F	ASTM D648
Flame Spread Index	20	20	ASTM E84

Thermal Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Burning Rate		No burn when flame removed	
Nail Hold, Lbf/in penetration		35	ASTM D1761
Screw Hold, Lbf/in penetration		680	ASTM D1761
Staple Hold, Lbf/in penetration		180	ASTM D1761

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