

RocFoam

VINYL BASED CELLULAR THERMOPLASTIC



Introduction

Rocfoam is a vinyl based cellular thermoplastic extrusion developed by Rocal as a direct replacement for timber in a range of applications. It offers most of the advantages of timber whilst removing many of the disadvantages.

Features

- Lightweight - can be manufactured to SG of between 0.3 and 0.7
- Moisture resistant- will not expand when exposed to water
- Resistant to changes in temperature
- Available in any length
- Perfectly square and uniform
- Will not rot
- Offers good screw fixing
- Good adhesion to a wide range of surfaces

Manufacturing

- Customised rebated profiles available
- In house dies manufactured to bespoke profiles
- Can be manufactured to specific weight requirements
- Available wrapped in decorative vinyl and paper finishes
- Manufactured to a tolerance of +/- 0.25 mm

PROPERTIES

THERMAL

Vicat Softening point (unblown surface)		
ISO 306 5kg	73	°C
Congo Red HS		
180°C	90	mins
Service temperature		
	-10 to 55	°C
Coefficient of Linear Thermal Expansion		
ASTM D-1525	6.4x10 ⁻⁵	cm/cm°C
Thermal Conductivity		
ASTM D-696	0.07	W/mK

MECHANICAL

Flexural Modulus		
ISO 178	25-1000*	N/mm ²
Tensile Strength @ Yield (10mm/min)		
ASTM D-638	5-12*	MPa
Elongation @ Break (10mm/min)		
ASTM D-638	5-20*	%
Impact (Charpy)		
ASTM D-256	5-20*	J/m
Direct Nail Withdrawal		
ASTM D1761	100-280*	N
Direct Screw Withdrawal		
ASTM D1761	500-1400*	N

ELECTRICAL

Surface Resistance		
ASTM D-257	5x10 ¹⁵	Ohm
Volume Resistivity		
ASTM D-257	2x10 ¹⁶	Ohm-cm

*Range given as products tested are both "skinned" (via Celluka process) and "unskinned", with a density range of 0.35 to 0.6 g/cm³.

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