



Product:	FIBAROLL - FR	PDS No. 71
Type:	UV CURED GLASS REINFORCED PLASTIC LAMINATE	
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Description

An Isophthalic Polyester Resin system reinforced with chopped glass fibers and surfacing tissue. The product cures with U/V light in the wavelength 365-420nm at temperatures between -15°C and +70°C. Fibaroll FR has been developed to have good fire and smoke performance and has been independently tested for fire to Class 1 BS476 part 7 (Warrington Fire Research, UK) and to Class 1 ASTM E84 (Omega Point labs, USA). Fibaroll FR has also been tested and passed the International Maritime Organisation's fire and smoke test and has therefore been accepted by Lloyds for use at sea (Warrington Fire Research).

Recommended Use: Protecting insulation from water, flammable/corrosive liquids and mechanical damage where a fire retardant, low smoke system is required. Fibaroll provides a watertight covering which helps prevent Corrosion under Insulation (CUI). Fibaroll can be used on hot and cold insulation systems with all types of insulating material. Fibaroll is applied in sheets or in a spiral wrap, it can also be used as a moulding material for boxes etc.

Standard Colours: Natural (Opaque), White, Grey (RAL7040) and most other RAL colours are available.

Dimensions: Delivered on rolls 600 mm x 10m or as slit reels for spiral wrapping - sizes dependant on application.
Thickness: 1.0 - 2.0 mm

Typical Physical Properties

Aspect	Units	Value	Method
Tensile Strength	MPa	72	ASTM D3039
Tensile Modulus	GPa	8	ASTM D3039
Tensile Elongation at break	%	1.4	ASTM D3039
Flexural strength	MPa	141	ASTM D790-03
Flexural modulus	GPa	10	ASTM D790-03

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Aspect	Units	Value	Method
Flexural Elongation to break	%	3.0	ASTM D790-03
Compressive Strength	MPa	165	ASTM D695
Compressive Modulus	GPa	13.0	ASTM D695
Interlaminar Shear	MPa	17.1	ASTM D2344-00
Impact resistance (Izod)	kJ/sqm	60	ASTM D256-04
Density	g/cm ³	1.7	
Sheet Weight at 1.8mm	kg/m ²	3.0	
Hardness	Barcol	63	ASTM D2583-95
Water absorption	%	0.45	ASTM D570
Coeff. of thermal expansion x 10 ⁻⁶ /°C		26.5	ASTM D696
Water Vapour Permeability <i>(*test conditions 38°+/- 2°C and 90% RH)</i>	g/m ² /hr/mmHg	0.011*	ASTM E96:2000
Styrene emission	PPM	4	
Max.Service/Operating Temp	Deg °C	100	
Heat Distortion Temp.	Deg°C	>255	ASTM D648
Chemical resistance		Good	Chemical Resistance Chart

Fibaroll is not hazardous for transport

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