



Monarflex®

MonarSound FlameSafe

TECHNICAL DATA SHEET

Upper Layer	Coated co-polymer LDPE with flame retardant additives
Type of Reinforcement	12 mm x 10 mm PP Leno weave grid
Lower Layer	Coated co-polymer LDPE with flame retardant additives, PE flame retardant foam
Eyelet / Structural Type	White rubber eyelet welded to sheet
Colour	White

Characteristic	Test Method	Value or statement	Tolerance	Units
Length	EN 1849-2	10	-0.0 / +5 %	m
Width	EN 1848-2	2.0, 2.25	-0.5 / +1.5 %	m
Effective sheet thickness	EN 1849-2	10	±5 %	mm
Membrane mass per unit area	EN 1849-2	558	-5 / +10 %	g·m ⁻²
Water tightness	EN 1928 (B)	Class W1	-	-
Reaction to fire	EN 13501-1	Class F	-	-
LPCB Fire Performance	LPS 1215	Approved	-	-
Tensile strength (MD)	EN 12311-2	> 630	-	N/50 mm
Tensile strength (TD)	EN 12311-2	> 630	-	N/50 mm
Elongation (MD)	EN 12311-2	> 10	-	%
Elongation (TD)	EN 12311-2	> 10	-	%
Flexibility at low temperature	EN 1109	≤ -20	-	°C
Tear Resistance	ASTM	≥ 200	-	N
Eyelet Pull Out	BS 7955	≥ 800	-	N
Light Transmission	Monarflex Int. Test	> 50	-	%
Noise Reduction	ISO 717-1	19	-	dB
Noise Red. Barrier Rating	EN 1793-2	B1	-	-

NPD = No Performance Determined. MD = Machine Direction. TD = Transverse Direction.

Roll Size	Roll Area	Eyelet Rows	Sheet Mass per Unit Area	(Gross) Roll Weight
2.0 m x 10 m	20 m ²	3	595 g·m ⁻²	11.55 kg
2.25 m x 10 m	22.5 m ²	6	595 g·m ⁻²	12.9 kg

Description of Product

MonarSound FlameSafe is made from a 5-ply composition, incorporating a weather resistant LDPE flame retardant co-polymer that encapsulates a multi-filament polyester grid. On the underside is a 10 mm PU fire retardant sound absorbent foam. The foam runs the length of the roll and has a width of 1.9 m. The sheeting is equipped with the unique Monarflex fixing eyelets for superior and long lasting fixing points.

Type of Application

MonarSound FlameSafe is intended for use as a high-performance acoustic barrier and protection sheet and is suitable for long-term projects up to periods of 12 months.

Fire Performance

The product has been tested and approved to LPS 1215, meeting the requirements for exterior use.

Compatibility

The material is compatible with all materials normally used in its application. There are no harmful side effects associated with this material.

Storage and Delivery

Rolls are delivered on pallets, individually wrapped with PE film. These materials should, when removed from pallets, be stored on side, under cover and on a flat, level surface, and protected from mechanical damage and heat sources. During storage exposure to direct sunlight is to be avoided.

Glossary of Terms

"Membrane" comprises the film and reinforcing grid laminate.
 "Sheet" comprises the membrane including eyelets/reinforcing bands.
 "Gross roll weight" is scaffold sheet plus packaging and cardboard core.

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NOTE: This information is given in good faith being based on the latest knowledge known to Icopal Limited. Whilst every effort has been made to ensure the contents of the publication are current while going to press, customers are advised that products, techniques and Codes of Practice are under constant review and liable to change without notice.