



FOAMALUX (FES) MATERIAL PROPERTIES

Typical Properties of foamed PVC sheet			
	Test Method		Value
	DIN	ISO	
Physical			
Base polymer			Polyvinyl Chloride (PVC)
Smell			Odourless
Moisture absorption (24 hrs @ 23°C)	DIN 53495		<0.25% by weight
Water solubility	DIN 53122		Insoluble
Oxygen index			49%
Mechanical			
Tensile strength at yield	DIN 53455	R 527	16MPa
Modulus of elasticity	DIN 53457	R 527	1100MPa
Elongation at break	DIN 53455	R 527	29%
Flexural strength	DIN 53452	178	25MPa
Impact resistance (Charpy test, un-notched)	DIN 53453	R179	15kJ/m ²
Shore hardness (3mm)	DIN 53505	868	>30
Thermal			
Vicat softening temperature	DIN 53460	306 (B/50)	76°C
Thermal conductivity, K	DIN 52612		0.065-0.085 W/m°C
U value (3mm)			4.8 W/m ² /K
U value (5mm)			4.4 W/m ² /K
Thermal decomposition temperature			>200°C
Thermal resistance, R (3mm)	CEN 492		0.20m ² K/W
Thermal expansion coefficient	DIN 53752		0.068mm/m°C
Service temperature range			-20 to +60°C
Electrical			
Dielectric strength	DIN53481	IEC 243	~100kV/cm
Surface resistance	DIN 53482	IEC 93	>10 ¹² Ω
Volume resistivity	DIN 53482	IEC 93	4x10 ¹⁵ Ωcm
Dielectric constant (1kHz)	DIN 53483	IEC 250	2.4
Dielectric dissipation factor (1kHz)	DIN 53483	IEC 250	0.013
Comparative Tracking Resistance	DIN IEC 112	IEC250	600 V
Sound			
Sound attenuation (3mm) (100-3500hz)			19dB

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Brett Martin Ltd. pursues a policy of continuous product development and reserves the right to amend specifications without notice.

Brett Martin Ltd., 24 Roughfort Road, Mallusk, Co. Antrim, N. Ireland, BT36 4RB.
Tel: +44 (0)28 9084 9999 Fax: +44 (0)28 9083 6666 E-mail: technical@brettmartin.com

REF CODE FES_Prop_Mater
27.11.2017