

uPVC Premium Foam

Material Information



uPVC Premium Foam

Product full identity:

Unplasticised Polyvinyl Chloride - Premium Foam

uPVC Premium Foam is fire rated self-extinguishing, lightweight, durable, versatile and suitable for both internal and external applications with a premium surface finish. Combined with low sound and thermal conductivity, uPVC foam is ideal for use in advertising, sign-making and construction.

Properties

- Lightweight
- Excellent surface structures for printing
- Accepts print, paint, adhesive, etc
- Easily glued, cut and shaped
- Fire-rated – self-extinguishing

Applications

- Screen
- Digital and UV printing
- Exhibition stands and displays
- Vinyl labelling
- Laminating

Forms



Sheet

uPVC Premium Foam

Technical Properties

Physical	Unit	Test Method	Result
Specific gravity	g/cm ³	ISO 1183	0.50 - 0.55
Water absorption until saturation at 23°C	%	DIN 53495	-
Maximum service temp. Upper temp limit – short term	°C	-	60
Maximum service temp. Upper temp limit – long term	°C	-	60
Lower temp limit	°C	-	0
Mechanical	Unit	Test Method	Result
Tensile strength	MPa	ISO 527-1/2	>12
Elongation at yield	%	-	>2
Tensile strength at break	MPa	ISO 527-1/2	15
Unnotched impact strength	kJ/m ²	-	-
Notch impact strength	kJ/m ²	ISO 179-2	12
Ball indentation / Rockwell hardness	MPa	-	-
Shore-D		ISO 868	>40
Flexural modulus of elasticity	MPa	-	-
Tensile modulus of elasticity	MPa	ISO 527-1/2	>750
Thermal	Unit	Test Method	Result
Vicat-softening point VST/B/50	°C	ISO 306	74
Heat deflection temperature HDT/B	°C	-	-
Coefficient of linear thermal expansion 23 – 100°C	m/(m.K)	DIN 53752	0.75
Thermal conductivity at 23°C	W/mK	DIN 52612	0.08
Electrical	Unit	Test Method	Result
Volume resistivity	Ω x m	-	-
Surface resistivity	Ω	DIN 53482	>5 x 10 ¹⁴
Insulation resistivity	Ω . cm	-	-
Dielectric constant at 1MHz		-	-
Dielectric loss factor at 1MHz		-	-
Dielectric strength	kV/mm	MSZ EN 60243-1	13
Comparative tracking index (CTI)		-	-
Additional Data	Unit	Test Method	Result
Bondability		-	-
Food compliance – FDA		FDA	No
Food compliance – EU		EU 10/2011	Yes
Antistatic		-	-
Flammability	Unit	Test Method	Result
Fire performance		UL 94 DIN 4102 CSE RF 3/77 NFP 92-501 (F) ISO 13501	V0 B1 Class 1 M1 C-s3, d0
Optical	Unit	Test Method	Result
N/A	N/A	N/A	N/A

All information provided in this Product Datasheet is for guide purposes only. The data has been taken from standard test results provided by our manufacturers.