

uPVC Coplast Foam

Material Information



uPVC Coplast Foam

Product full identity:

Unplasticised Polyvinyl Chloride - Coplast Co-extruded Foam

uPVC Coplast Co-extruded foam retains the unique advantages of standard foam with increased durability due to a solid surface on both sides. Due to the increased impact resistance, fire rating and thermal properties this grade of foam is ideal for many cladding applications.

Properties

- Lightweight
- Strong and durable
- Good thermal properties
- High chemical resistance
- Fire-rated – self-extinguishing

Applications

- Screen
- Digital and UV printing
- Exhibition stands and displays
- Wall and ceiling cladding
- Partitions and shop fitting

Forms



Sheet

uPVC Coplast Foam

Technical Properties

Physical	Unit	Test Method	Result
Specific gravity	g/cm ³	DIN EN ISO 1183	0.5 - 0.7
Water absorption until saturation at 23°C	%	-	0.7
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	DIN EN ISO 527	18
Elongation at yield	%	DIN EN ISO 527	3
Tensile strength at break	MPa	-	-
Unnotched impact strength	kJ/m ²	DIN EN ISO 179	19
Notch impact strength	kJ/m ²	-	-
Ball indentation / Rockwell hardness	MPa	-	-
Shore-D		DIN EN ISO 868	70
Flexural modulus of elasticity	MPa	DIN EN ISO 178	1400
Tensile modulus of elasticity	MPa	DIN EN ISO 527	1100
Thermal	Unit	Test Method	Result
Vicat-softening point VST/B/50	°C	-	72
Heat deflection temperature HDT/B	°C	-	-
Coefficient of linear thermal expansion 23 – 100°C	m/(m.K)	-	0.8 x 10 ⁻⁴
Thermal conductivity at 23°C	W/mK	-	0.0616
Electrical	Unit	Test Method	Result
Volume resistivity	Ω x m	-	-
Surface resistivity	Ω	DIN EN 61340	10 ¹²
Insulation resistivity	Ω . cm	-	-
Dielectric constant at 1MHz		-	-
Dielectric loss factor at 1MHz		-	-
Dielectric strength	kV/mm	-	10
Comparative tracking index (CTI)		-	-
Additional Data	Unit	Test Method	Result
Bondability		-	-
Food compliance – FDA		-	-
Food compliance – EU		-	-
Antistatic		-	-
Flammability	Unit	Test Method	Result
Fire performance		DIN 4102	B2
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.