

PVC Foam

Acoustic Properties

Thickness	Attenuation
1mm	12dB
2mm	18dB
3mm	19dB
4mm	20dB
5mm	22dB
6mm	23dB
8mm	24dB
10mm	27dB

Sound attenuation frequency range 100 - 3500Hz

Electrical Properties

Property	Value
Dielectric Strength	~100kV/cm
Surface Resistance	>10 ¹² Ω
Volume Resistivity	4 x 10 ¹⁵ Ω.cm
Dielectric Constant	2.4 (for 1kHz)
Dielectric Dissipation Factor	0.013 (for 1kHz)
Tracking Resistance	600 CPI

Fire Performance

Country	Test Method	Result
For standard & gloss PVC		
Belgium	NBN S21-303	A1
France	NF P 92-507	M1
Germany	DIN 4102	B1
Italy	CSE RF2/75/A, RF3/77	Class 1
Spain	UNE 93.727-90	Class 1
UK	BS 476 Part 7	Class 1
USA	UL-94	94V-0

Gloss foam: Class 1 Surface Spread of Flame to BS476: Part 7: 1987

Physical Properties

Property	Standard PVC Foam	Gloss PVC Foam
Base Polymer	Polyvinyl chloride (PVC)	Polyvinyl Chloride (PVC)
Form	Semi finished sheet	Semi finished sheet
Smell	Odourless	Odourless
Moisture Absorption after 24hrs @23 °C	<0.25% by weight	<0.25% by weight
Water Solubility	Insoluble	Insoluble
Tensile Strength at Yield	16 MPa	16 MPa
Modulus of Elasticity	0.9 MPa	0.9 MPa
Elongation at Break	27%	27%
Flexural Strength	27 MPa	27 Mpa
Impact Resistance	15 kJ/m ²	15 kJ/m ²

Shore Hardness	45-65 (3mm)	70-75 (3mm)
Oxygen Index	48%	48%

Thermal Properties

Property	Value
Vicat Softening Temperature	76 °C
Thermal Conductivity K	0.085 W/m °C
Thermal Decomposition Temperature	>200 °C
Thermal Resistance R	
1mm	0.18m ^{20K/W}
2mm	0.19m ^{20K/W}
3mm	0.20m ^{20K/W}
4mm	0.22m ^{20K/W}
5mm	0.23m ^{20K/W}
6mm	0.24m ^{20K/W}
8mm	0.26m ^{20K/W}
10mm	0.29m ^{20K/W}
Thermal Expansion Co-efficient	0.076 mm/m °C
Service Temperature Range	-20 0C to +60 °C

Product Forms

Standard Sheet

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