



TECHNICAL DATASHEET

PVC FOAM

Polyvinyl Chloride foam sheets

PROPERTY	UNIT	VALUE	STANDARD	VARIABLE
General				
Density	g/cm ³	0,55 to 0,75		
Base polymer		Polyvinyl Chloride (PVC)		
Form		Unplasticised rigid foam PVC sheet		
Smell		Odourless		
Moisture absorption		<0,25% by weight	ISO 62	24 hours at 23°C
Water solubility		Insoluble		
Oxygen index		48%		
Mechanical				
Tensile strength at yield	MPa	15	ISO 527	
Flexural Modulus	MPa	1100 to 1300	ISO 178	
Elongation at break	%	27 to 29		
Flexural strength	MPa	25 to 27		
Charpy impact strength unnotched	kJ/m ²	11	ISO 179-1/1eU	
Average sheet hardness	Shore D	>30	ISO 868	
Electrical				
Dielectric strength	kV/cm	≈100		
Surface resistance	Ω	>10 ¹²		
Volume resistivity	Ωcm	4 x 10 ¹⁵		
Dielectric constant		2,4		1 kHz
Dielectric dissipation factor		0,013		1 kHz
Tracking resistance	CPI	600		
Thermal				
Vicat softening temperature	°C	73 to 76		
Thermal expansion coefficient	mm/m°C	0,068	ISO 11359-2	
Service temperature range:	°C	-20 to 60		
Thermal conductivity (K)	W/m°C	0,085		
Thermal decomposition temperature	°C	>200		
Thermal resistance (R)	m ² °K/W	0,18		1mm thickness

The technical data given in this sheet correspond to our current state of knowledge and should not be construed as an agreement or guarantee regarding certain properties of our products. The decision on the suitability of a particular material for a specific application is up to the user. We reserve the right to modify the given data. Errors of the given data are reserved.



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Thermal				
Thermal resistance (R)	m ² °K/W	0,19		2mm thickness
Thermal resistance (R)	m ² °K/W	0,20		3 mm thickness
Thermal resistance (R)	m ² °K/W	0,22		4 mm thickness
Thermal resistance (R)	m ² °K/W	0,23		5 mm thickness
Thermal resistance (R)	m ² °K/W	0,24		6 mm thickness
Thermal resistance (R)	m ² °K/W	0,26		8 mm thickness
Thermal resistance (R)	m ² °K/W	0,29		10 mm thickness
Thermal resistance (R)	m ² °K/W	0,31		13 mm thickness
Thermal resistance (R)	m ² °K/W	0,38		19 mm thickness
Fire classification				
Fire rating DE		B1	DIN 4102-1	3 mm thickness