TECHNICAL DATASHEET

PVC FOAM

Polyvinyl Chloride foam sheets

PROPERTY	UNIT	VALUE	STANDARD	VARIABLE
General				
Density	g/cm³	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/m²	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	4×10^{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 coëfficiënt	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)	m² °K/W	0,18		1mm thickness

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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