FOAM PVC INTEGRAL

PVC Foam Integral sheet is free of Lead, Cadmium and Barium metals.

Property	Unit	Ref. Standard	Value
Physical			
Density	g / cc	DIN 53479	0.55
Hardness	Shore 'D'	DIN 53505	70
Water Absorbtion	%	DIN 53495	0.1
Mechanical			
Tensile Strength	MPa	DIN 53455	> 13
Elongation	%	DIN 53455	> 15
E-Modulus	MPa	DIN 53457	1150
CHARPY Impact Strength	KJ/M^2	DIN 53253	> 15
Flexural Strength	MPa	DIN 53452	> 30
Compressive Strength at 10% Deformation	MPa	DIN 53421	> 3
Thermal			
VICAT (B/50)	°C	DIN 53460	> 75
Heat Deflection Temperature @1.8 MPa	°C	DIN 53461	~ 60
Coefficient of Linear Thermal Expansion	$°C^{-1}$	ASTM D 696	5.56×10^{-5}
Thermal Conductivity	W/m K	ASTM C 177	0.1
Rate of heat transfer ('K' / 'U' VALUE)	W/m2 K	DIN 52616	3.0 for 10 mm
			2.0 for 19 mm
			1.6 for 24 mm
			1.35 for 30 mm
Electrical			
Surface Resistivity	Ω	ASTM D 257	$> 10^{14}$
Volume Resistivity	Ω - cm	ASTM D 257	$> 10^{15}$
Dielectric Constant at 1MHZ Dielectric Strength	-	ASTM D 150	1.7
Flammability			
Country			
UK	-	BS476; Part 7	Class 1
USA	-	UL 94	94 5 - O 94 5 - V
France		NFP 92 - 501	M1

Standard Dimensions and Colour			
Colour	Thickness	Width	Length
White – J 1054	10, 13, 14, 16, 19, 24, 25 & 30 mm	1000 ,1220 & 1250 mm	2000, 2440, 2500, 3000, 4880 & 5490 mm
	Special lengths and widths as per customer's request		

Tolerance on dimensions		
Length	Width	Thickness
- 0, + 10 mm	± 5 mm	± (0.1 + 0.05 x S) *Where S = Thickness of sheet*