

# Technical Data Sheet

## PVC Foamboard

### Advantages

- Impact resistance
- High rigidity
- Dimensional stability
- Very low moisture absorption
- Excellent machinability

### vs Homopolymer

- Performs better in hot water 85-90°C
- More resistant to alkalis and UV

	Test Standard	Units	Guide Values
<b>General</b>			
Colour			White/Black/Blue
Density	ISO 1183:1987	g/cm <sup>3</sup>	1.41
Moisture Absorption (Equilibrium)	ISO 62:1999	%	0.1
Water Absorption (24 Hours)	ISO 62:1999 (modified)	%	0.2
Water Absorption (Saturation)	ISO 62:1999	%	0.9
<b>Mechanical Properties</b>			
Tensile strength	ISO 527-1/2:1993	MPa	70
E-modulus	ISO 527-1/2:1993	MPa	3100
Elongation at break	ISO 527-1/2:1993	%	>15
Compressive Strength	ISO 604:2002	MPa	110
Compressive Modulus	ISO 604:2002	MPa	2600
Flexural Strength*	ISO 178:2001	MPa	80
Flexural Modulus	ISO 178:2001	MPa	2600
Izod Impact Strength	ISO 180:2000	KJ/m <sup>2</sup>	7.2
Charpy Impact Strength	ISO 179-2:1999	KJ/m <sup>2</sup>	-
Hardness (Shore D)	ISO 868:2003	-	83
Coefficient of Friction (Dynamic)		-	0.25
Limiting PV		MPa/m.min	6
Wear Rate		mg/km	-
K-Factor		mm <sup>3</sup> /Nm	-
<b>Thermal Properties</b>			
Melting Temperature	-	°C	170
Glass Transition Temperature (T <sub>g</sub> )	ISO 11359-2:1999	°C	-60
Heat Deflection Temperature HDT/A	ISO 75	°C	110
Heat Deflection Temperature HDT/B	ISO 75	°C	160
Maximum Intermittent Service Temperature	-	°C	140
Maximum Continuous Service Temperature	-	°C	90
Minimum Intermittent Service Temperature	-	°C	-
Minimum Continuous Service Temperature	-	°C	-
Coefficient of Linear Thermal Expansion (TMA)	ISO 11359-2:1999	°C <sup>-1</sup>	9.2 x 10 <sup>-5</sup>
Thermal Conductivity	ISO 8301:1991	W/m.°C	0.31
Flammability	IEC 60695-11-10:2003-08	-	HB
<b>Electrical Properties</b>			
Dielectric Constant	IEC 60250:1969-01	-	3.8
Dielectric Constant (Low Frequency)		-	-
Dissipation Factor	IEC 60250:1969-01	Hz	0.005
Dielectric Strength	IEC 60243-1:1998-01	kV/mm	16.5
Volume Resistivity	IEC 60093:1980-01	ohm.m	1 x 10 <sup>13</sup>
Surface Resistivity ROA	IEC 60093:1980-01	ohm	1 x 10 <sup>13</sup>
Comparative Tracking Index	IEC 60112:2003-01	CTI	600

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