

Extruded Acrylic

Electrical Properties

Property	Test Method	Value
Surface Resistivity	IEC 60093	3×10^{-15}
Volume Resistivity	IEC 60093	$1 \times 10^{-13} \text{ to } 5 \times 10^{13}$
Dielectric Strength	IEC 60243-1	30
Dielectrical Dissipation Factor 50Hz	DIN 53483-2	0.06
Relative Permittivity 50Hz	DIN 53483-2	2.7

Fire Performance

Property	Test Method	Value
Material Thickness 3mm	DIN 4102	B2

Light Transmission

Property	Test Method	Value
Clear S (3mm)	DIN 5036	92%
Opal AG (3mm)	DIN 5036	34%
Opal AG (5mm)	DIN 5036	33%

Mechanical Properties

Property	Test Method	Value
Tensile Strength @ -40 °C	DIN 53455	100 MPa
Tensile Strength @ 23 °C	DIN 53455	72 MPa
Tensile Strength @ 70 °C	DIN 53455	35 MPa

Physical Properties

Property	Test Method	Value
Density	DIN 53479	1.19 g/cm ³
Water Absorption	DIN 53495:A	30mg
Weight (3mm)		3.57 kg/m ²
Weight (6mm)		7.14 kg/m ²

Thermal Properties

Property	Test Method	Value
Heat Distortion Temperatures	Method B (0.45 MPa) DIN 53461	95°C
Heat Distortion Temperatures	Method A (1.81 MPa) DIN 53461	90°C
Thermal Conductivity	DIN 52612	0.19 W/K.m
Co-efficient of Thermal Expansion	DIN 53752:A	70m/m.K x 10-6
U Value		5.6W/m ^{20K} (3mm)

Tolerance

Ranges	Value
Width up to 2050mm	+/- 5mm
Length up to 5m	-0, +10mm
Length over 5m	-0, +25mm
Thickness: 2-10mm	+/- 0.05mm

Product Forms

Standard Sheet

Disclaimer

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