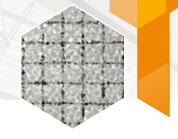# PLASIAX™
WIRE
THE GLASS ALTERNATIVE

DESCRIPTION

Plasaix Wire is a 6mm polycarbonate sheet with uv protection on both sides, and a grid pattern etched into the surface on one side. it is available in either clear/clear or clear/pebble texture surfaces, the clear/pebble texture offering excellent light diffusion without transparency. It has an exellent impact resistance, an excellent fire performance, ease of installation and is an excellent candidate for a wide variety for interior and exterior applications such as roof and balcony glazing.

CHEMICAL RESISTANCE

Plasaix Wire has sufficient resistance to most chemical substances encountered in normal exterior use.
In applications where the product will come into contact with aggressive chemicals, specific (application related) testing of the material is always advised. It is essential to check the compatability before use.

PROPERTY	METHOD	UNITS	VALUE
PHYSICAL			
Specific gravity	ISO 1183	g/cm^3	1.20
Water absorption, 23 °C, 24 hours	ISO 62	%	0.10
Equilibrium	ISO 62	%	0.35
MECHANICAL			
Tensile stress, yield	ISO 527	N/mm2	60
Tensile modulus	ISO 527	N/mm2	2350
Tensile strain, yield	ISO 527	%	6
Tensile strain, break	ISO 527	%	120
Flexural stress, yield	ISO 178	MPa	90
Flexural modulus	ISO 178	MPa	2300
IMPACT			
Izod impact, notched 20°C	ISO 180/1A	kJ/m^2	65
-40°C		J	>37
THERMAL			
Vicat Softening Temperature, rate B/120	ISO 306	°C	148
Ball pressure test 75°C	IEC 335-1	-	Passes
125°C		-	Passes
Mould Shrinkage	ASTM D1955	%	0.6-0.8
Thermal Expansion	DIN 53752	1/ °C	7.10^{-5}
Fire Rating	BS476 Pt7		Class 1Y
OPTICAL			
Light transmission 6mm	ASTM D1003	%	79

Variation within normal tolerances are possible for various colours. These typical values are not intended for specification purposes.
If minimum certifiable properties are required please contact your local plasiax representative. All values are measured at least after 48 hours storage at 23°C/50% relative humidity. All properties are measured on injection molded samples. All samples are prepared according ISO 294

PLASIAX™
PERFORMANCE THROUGH INNOVATION