

Manufacturer/distributor: PyraSied Xtreme Acrylic

Brand: NU Polycarbonate UV

Material: Clear sheets

Opal and colored acrylic remain within the reliability interval because of the very small amount of additives.

Physical-chemical properties

	Method	Unit Of measurement	Values
Physical Properties			
Density	ISO 1183	g/cm ³	1.2
Mechanical Properties			
Tensile strength to deformation	ISO 527	MPa	60
Tensile strength to breakage	ISO 527	MPa	72
Elongation to breakage	ISO 527	%	150
Elasticity modulus in traction	ISO 527	MPa	2,300
Flexing resistance	ISO 178	MPa	97
Charpy impact strength notched (23 ^o)	ISO 180	kJ/m ²	55
Izod unnotched (23 ^o)	ISO180	J/m	no breakage
Izod notched (23 ^o)	ISO180	J/m	950
Rockwell hardness, M/R scale	ASTM D-785		72/118
Optical Properties			
Light transmission	ASTM D-1003	%	87-91
Refractive index	ASTM D-542		1,586
Thermal Properties			
Maximum service temperature		°C	120
VICAT softening temperature (50 N)	ISO 306 B	°C	151
Heat deflection temperature, HDT A (1.8 MPa)	ISO 75-2	°C	143
Heat deflection temperature, HDT B (0.45 MPa)	ISO 75-2	°C	146
Linear Expansion Coëfficiënt	ASTM D-696	10 ⁵ /mK	6.8
Fire behaviour			
Flammability	DIN 51794		Bs1d0
Flammability	UL4		Passed (UL listed)
Glow-wire	DIN EN 60695	°C	passed 960

This information is given as a guide and does not represent the technical specifications of the materials and therefore does not imply any responsibility on the part of PyraSied B.V. It's the responsibility of each user to establish that the material is suitable for his or her application.