

Manufacturer/distributor: PyraSied Xtreme Acrylic

Material: PETG

Type: Clear

Physical-chemical properties

	Method	Unit of measurement	Values
Physical Properties			
Density	ISO 1183	g/cm ³	1.27
Mechanical Properties			
Tensile strength to deformation	ISO 527	MPa	53
Tensile strength to breakage	ISO 527	MPa	26
Elongation to breakage	ISO 527	%	>200
Elasticity modulus in traction	ISO 527	MPa	2200
Flexing resistance	ISO 178	MPa	79
Charpy impact test with notched specimen	ISO 179	kJ/m ²	10
Charpy impact test	ISO 527	kJ/m ²	does not break
Rockwell hardness, M/R scale			115
Ball pressure hardness	ISO 2039	MPa	
Optical Properties			
Light transmission	ASTM D-1003	%	88
Refractive			1.57
Thermal Properties			
Maximum service temperature		°C	60
VICAT softening temperature (10 N)	ISO 306	°C	83
VICAT softening temperature (50 N)	ISO 306	°C	78
Softening temperature, HDT A (1.8 MPa)	ISO 75-2	°C	68
Softening temperature, HDT B (0.45 MPa)	ISO 75-2	°C	72
Linear Expansion Coëfficiënt		x10 ⁵ /°C	6.8