

Manufacturer/distributor: PyraSied Xtreme Acrylic

Brand: NU Primo[®]XT

Material: PMMA XT

Physical-chemical properties

	Method	Unit Of measurement	Values
Physical Properties			
Density	ISO 1183	g/cm ³	1.19
Mechanical Properties			
Tensile strength to breakage	ISO 527	MPa	83
Elongation to breakage	ISO 527	%	5
Elasticity modulus in traction	ISO 527	MPa	3200
Flexing resistance	ISO 178	MPa	120
Charpy impact test with notched specimen	ISO 179	kJ/m ²	
Charpy impact test	ISO 527	kJ/m ²	20
Rockwell hardness, M/R scale			92
Ball pressure hardness	ISO 2039	MPa	185
Optical Properties			
Light transmission	ASTM D-1003	%	92
Refractive index	ASTM D-542		1,489
Thermal Properties			
Maximum service temperature		°C	80
VICAT softening temperature (10 N)	ISO 306	°C	116
VICAT softening temperature (50 N)	ISO 306	°C	107
Softening temperature, HDT A (1.8 MPa)	ISO 75-2	°C	97
Softening temperature, HDT B (0.45 MPa)	ISO 75-2	°C	101
Linear Expansion Coëfficiënt		x10 ⁵ /°C	7
Fire behaviour			
Flammability	EN 13501		E