

SERRAGLAZE - Physical Properties

Serraglaze is a thin material made using Plexiglas 8N, one of a group of Plexiglas products which have high light transmission, high mechanical strength, and excellent weathering properties. The general properties of Plexiglas 8N PMMA are as follows.

	Unit	Standard	Property
Mechanical properties			
Tensile modulus (1 mm/min)	MPa	ISO 527	3300
Stress at break (5 mm/min)	MPa	ISO 527	77
Strain at break (5 mm/min)	%	ISO 527	5.5
Charpy impact strength (23°C)	kJ/m ²	ISO 179	20
Thermal properties			
Vicat softening temperature (B/50)	°C	ISO 306	108
Glass transition temperature	°C	IEC 10006	117
Temp. of deflection under load (0.45MPa)	°C	ISO 75	103
Temp. of deflection under load (1.8 MPa)	°C	ISO 75	98
Coeff. of linear therm. expansion (0-50°C)	10 ⁻⁵ K ⁻¹	ASTM E831	8
Fire rating		DIN 4102	B2
Optical properties			
Transmission factor, ùD65	%	DIN 5036	92
Haze	%	ASTM D1003	< 0.5
Refractive index		ISO 489	1.49
Other properties			
Density	g/cm ³	ISO 1183	1.19

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