

## ***Properties of SHINKOLITE™ PX200 / PX500***

Property		Test Method	Unit	PX200	PX500
General	Density <sup>a, b</sup>	ISO 1183-1: method A	g/cm <sup>3</sup>	1.19	1.19
Optical	Refractive index, n <sub>D</sub> <sup>23</sup>	ISO 489: method A		1.49	1.49
	Total luminous transmittance <sup>a</sup>	ISO 13468-1	%	93	93
	Haze <sup>a</sup>	ISO 14782	%	0.5	0.5
Mechanical	Tensile strength	ISO 527-2/1B/5	MPa	74	74
	Tensile strain	ISO 527-2/1B/5	%	4.2	4.2
	Modulus of elasticity in tension	ISO 527-2/1B/1	MPa	3200	3200
	Flexural Strength	ISO 178	MPa	120	120
	Charpy impact strength	ISO 179-1/1fU	KJ/m <sup>2</sup>	17	17
	Rockwell Hardness	ISO 2039-2	Scale M	100	100
	Barcol Hardness	(934-1)		52	52
Thermal	Vicat softening temperature	ISO 306: method B50	°C	104	108
	Linear expansion coefficient	ISO 11359-2	°C <sup>-1</sup>	7E-05	7E-05
	Coefficient of thermal conductivity		W/mK	0.21	0.21
	Specific heat		J/g°C	1.5	1.5
	Forming Temperature		°C	140-200	140-200
Electrical	Surface Resistivity	IEC 93	Ω	> 1E16	> 1E16
	Volume Resistivity	IEC 93	Ωcm	> 1E16	> 1E16
	Dielectric Strength, Short Time Test	IEC 93	kV/mm	20	20
Miscellaneous	Flammability	UL 94		HB	HB
	Water Absorption <sup>c</sup>	ISO 62 method 1 (24 h)	%	0.3	0.3
	Soluble Matter Lost after Immersion		%	0.0	0.0

a For transparent, colorless material.

b Colored sheets may have a higher value.

c Value reported refers to a square specimen of edge 50 mm and thickness 3 mm.

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Typical values should not be used for specification purpose.

***ShinkoLite***<sup>™</sup>  
The art of performing beauty

<https://www.m-chemical.co.jp/shinkolite/index.html>

06-Apr-2026  
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