

Properties of SHINKOLITE™ L

Property		Test Method	Unit	Value
General	Density ^{a, b}	ISO 1183: method A	g/cm ³	1.19
Optical	Refractive index, n _D ²³	ISO 489: method A		1.49
	Total luminous transmittance ^a	ISO 13468-1	%	93
	Haze ^a	ISO 14782	%	0.5
Mechanical	Tensile strength	ISO 527-2/1B/5	MPa	75
	Tensile strain	ISO 527-2/1B/5	%	4.5
	Modulus of elasticity in tension	ISO 527-2/1B/1	MPa	3200
	Flexural Strength	ISO 178	MPa	120
	Charpy impact strength	ISO 179-1/1fU	KJ/m ²	17
	Rockwell Hardness	ISO 2039-2	Scale M	100
Thermal	Temperature of deflection under load	ISO 75-2: method A	°C	100
	Vicat softening temperature	ISO 306: method B50	°C	110
	Linear expansion coefficient	ISO 11359-2	°C ⁻¹	7E-05
	Coefficient of thermal conductivity		W/mK	0.21
	Specific heat		J/g°C	1.5
Electrical	Surface Resistivity	IEC 93	Ω	> 1E16
Mar Resistance	Pensile Hardness	MCC method (200g load)		2H
	Taber Abrasion (100times)	ISO 9352	%	40
Miscellaneous	Flammability	UL 94		HB
	Water Absorption ^c	ISO 62 method 1 (24 h)	%	0.3

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™

The art of performing beauty

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

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