MITSUBISHI CHEMICAL GROUP
MITSUBISHI CHEMICAL CORPORATION

1-1, Marunouchi 1-Chome, Chiyoda-ku, Tokyo, 100-8251, Japan
Phone:+81-3-6748-7526 Fax:+81-3-3286-1418

Properties of SHINKOLITE™ LX

Property		Test Method	Unit	N865	N875	N885	#001
General	Density	ISO 1183-1: method A or C, or ISO 1183-2	g/cm^3	1.19	1.19	1.19	1.19
Optical	Refractive index、n_D^{23}	ISO 489: method A		1.49	1.49	1.49	1.49
	Total luminous transmittance [a]	ISO 13468-1	%	93	92	91	93
	Haze [a]	ISO 14782	%	0.5	1.5	2.6	0.5
Mechanical	Tensile strength	ISO 527-2/1B/5	MPa	75	75	75	75
	Tensile strain	ISO 527-2/1B/5	%	4.5	4.5	4.5	4.5
	Modulus of elasticity in tension	ISO 527-2/1B/1	MPa	3200	3200	3200	3200
	Flexural Strength	ISO 178	MPa	120	120	120	120
	Charpy impact strength (Unnotched)	ISO 179-1/1fU	KJ/m^2	17	17	17	17
	Rockwell Hardness	ISO 2039-2	Scale M	100	100	100	100
Thermal	Temperature of deflection under loa	ISO 75-2: method A	℃	96	96	96	96
	Linear expansion coefficient	ISO 11359-2	℃$^{-1}$	7E-05	7E-05	7E-05	7E-05
	Coefficient of thermal conductivity		W/mK	0.21	0.21	0.21	0.21
	Specific heat		J/g℃	1.5	1.5	1.5	1.5
Electrical	Surface Resistivity	IEC 93	Ω	＞1E16	＞1E16	＞1E16	＞1E16
Miscellaneous	Flammability	UL 94		HB	HB	HB	HB
	Water Absorption [b]	ISO 62 method 1 (24 h, 23℃	%	0.3	0.3	0.3	0.3
Mar Resistance	Taber Abrasion (100times)	ISO 9352	%	40	40	40	40

a Value reported refers to thickness 3 mm.

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

Typical values should not be used for specification purpose.

ShinkoLite™
The art of performing beauty

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

06-Apr-2026
Mitsubishi Chemical Corporation
PMMA Technology Group