

## ***Properties of SHINKOLITE™ DX***

Property	Test Method	Unit	Value	
General	Density <sup>a, b</sup>	ISO 1183-1: method A or C, or ISO 1183-2	g/cm <sup>3</sup>	1.19
Optical	Refractive index, n <sub>D</sub> <sup>23</sup>	ISO 489: method A		1.49
	Total luminous transmittance <sup>a</sup>	ISO 13468-1	%	93
	Haze <sup>a</sup>	ISO 14782	%	0.5
Mechanical	Tensile strength	ISO 527-2/1B/5	MPa	74
	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 (Unnotched)	ISO 179-1/1fU	KJ/m <sup>2</sup>	17
	Rockwell Hardness	ISO 2039-2	Scale M	100
Thermal	Temperature of deflection under load	ISO 75-2: method A	°C	96
	Linear expansion coefficient	ISO 11359-2	°C <sup>-1</sup>	7E-05
Mar Resistance	Pensile Hardness	ISO 15184 (200g load)		2H
Miscellaneous	Flammability	UL 94		HB
Miscellaneous	Water Absorption <sup>c</sup>	ISO 62 method 1 (24 h, 23°C)	%	0.3
Mar Resistance	Taber Abrasion (100times)	ISO 9352	%	40

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>

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