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™ FROSTY

Property		Test Method	Unit	#001	NB00	NB20	BB01	GB01	RB01	YB01
Optical	Total luminous transmittance[a]	ISO/CD 26723	%	93	90	64	74	89	68	85
	Haze	ISO 14782	%	0.5	96	96	96	96	96	96

General	Density	ISO 1183-1: method A or C, or ISO 1183-2	g/cm^3	1.19
Mechanical	Tensile strength	ISO 527-2/1B/5	MPa	74 or more
	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^2	17
	Rockwell Hardness	ISO 2039-2	Scale M	98 or more
Thermal	Temperature of deflection under lo	ISO 75-2: method A	℃	90 or more
	Linear expansion coefficient	ISO 11359-2	$℃^{-1}$	7E-05
	Coefficient of thermal conductivity		W/mK	0.21
	Specific heat		J/g℃	1.5
Electrical	Surface Resistivity	IEC 93	Ω	＞1E16
Miscellaneous	Flammability	UL 94		HB
	Water Absorption[b]	ISO 62 method 1 (24 h, 23℃	%	0.3
Mar Resistance	Taber Abrasion (100times)	ISO 9352	%	40

a CD＝Committee Draft

b Measured as a sample: 3 mm x 50 mm x 50 mm

ShinkoLite™
The art of performing beauty

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

21-Jun-2022
Mitsubishi Chemical Corporation
PMMA Technology Dept.