

# Properties of Shinkolite Roof

Property	Test method	Unit	Value	
General	Density <sup>a,b</sup>	ISO 1183: method A	g/cm <sup>3</sup>	1.19
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 179-1/1 fu	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	100
	Vicat softening temoerature	ISO 306: method B50	°C	110
	Linear expansion coefficient	ISO 11359-2	°C <sup>-1</sup>	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 (100 times)	ISO 9352	%	40
Miscellaneous	Water absorption <sup>c</sup>	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.

Shinkolite is a registered trademark of mitsubishi chemical corporation.

Typical values should not be used for specification purpose.