

## *Properties of SHINKOLITE™ MR200*

<i>Properties</i>				<i>SHINKOLITE™ MR200 -#001 3mm</i>	<i>SHINKOLITE™ L -#001 3mm</i>
Specific Gravity		ISO 1183	g/cm <sup>3</sup>	1.19	1.19
Optical	Refractive Index			1.52 (Surface)	1.49
	Total Light Transmittance	ISO 13468-1	%	93	93
Mechanical	Tensile Strength	ISO 527-2	MPa	63	75
	Tensile Strain	ISO 527-2	%	2.2	4.5
	Flexural Strength	ISO 178	MPa	90	120
	Modulus of Elasticity	ISO 527-2	MPa	3200	3200
	Impact Strength	DIN 53453	kJ/m <sup>2</sup>	4	5
Thermal	Deflection Temperature under Load	ISO 75-2	C degree	100	100
<b>Mar Resistance</b>	Taber Abraser (100 times)	ASTM D-1044	%	1.0 ~ 1.5	45
	Falling Abrasive Particles (400g)	ASTM D-673	%	3	64.2
	Falling Abrasive Particles (800g)	ASTM D-673	%	6	65
	Steel Wool Test	*1	g	1000	10
	Pensile Hardness	JIS D0202		6H	2H
Chemical *2	Acetone			No change	×
	Methanol			No change	
	Dichloromethane			No change	×
	30% Sulfuric acid			No change	No change
	44% Sodium hydroxide			No change	No change
Weatherability	(SWOM 1000 hours)				
	Appearance			No change	
	Adhesive Property of Hard-Coating Layer	JIS K5400		100 / 100	-
	Steel Wool Test	*1	g	1000	-
	(SWOM 2000 hours)				
	Appearance			No change	
Adhesive Property of Hard-Coating Layer	JIS K5400		100 / 100	-	
Steel Wool Test	*1	g	500 ~ 1000	-	

\*1: Minimum weight which some scratch can be clearly observed, when the surface was abraded by #0000 steel wool (4.91cm<sup>2</sup>) 100 times at the speed of 40rpm.

\*2: Change of the appearance after 24 hours contact

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