

Properties					Shinkolite-AL	Shinkolite-AMR	Shinkolite-APX200	
		JIS	ISO	ASTM	Production method	Continuous casting	Continuous casting	Continuous casting
<b>Specific gravity</b>	ISO 1183 method			g/cm <sup>3</sup>	1.19	1.19	1.19	
	JIS K 7112	A.C.or D	D792					
<b>Optical</b>	Refractive index Light transmittance	ISO 489 method			1.49	1.52(Surface)	1.49	
		JIS K 7105	A	D542				
	(Total)	JIS K 7105	ISO 13468-1	D1003	%	93	93	93
	Haze	JIS K 7105	ISO 14782	D1003	%	0.5	0.5	0.5
<b>Mechanical</b>	Tensile strength							
	Rupture	JIS K 7113	ISO 527-2/1B/5	D638	MPa	75	64	74
	Modules of elasticity	JIS K 7113	ISO 527-2/1B/1	D638	MPa	3.2X10 <sup>3</sup>	3.2X10 <sup>3</sup>	3.2X10 <sup>3</sup>
	Elongation at rupture	JIS K 7113	ISO 527-2/1B/5	D638	%	4.5	2.2	4.5
	Flexural strength							
	Rupture	JIS K 7203	ISO 178	D790	MPa	120	91	120
	Modules of elasticity	JIS K 7203	ISO 178	D790	MPa	3.2X10 <sup>3</sup>	3.2X10 <sup>3</sup>	3.2X10 <sup>3</sup>
	Compressive Strength							
	Yield	JIS K 7181	ISO 604	D695	MPa	120	120	120
	Modules of elasticity	JIS K 7181	ISO 604	D695	MPa	3.2X10 <sup>3</sup>	3.2X10 <sup>3</sup>	3.2X10 <sup>3</sup>
	Impact strength(Izod)	JIS K 7110	ISO 180	D256	kJ/m <sup>2</sup>	2		1.8
	Impact strength(Sharp) )	JIS K 7111	ISO 179 /1FU	D256	kJ/m <sup>2</sup>	17		17
	Rockwell hardness	JIS K 7202	ISO 2039-2	D785		100	100	98
	<b>Thermal</b>	Temperature of deflection under load	JIS K 7207(A)	ISO 75-2/A	D648	°C	100	100
Coefficient of thermal expansion		ISO 11359			°C <sup>-1</sup>	7X10 <sup>-5</sup>	7X10 <sup>-5</sup>	7X10 <sup>-5</sup>
	JIS K 7197	table2	D696					

	Coefficient of thermal conductivity	JIS A 1412		D177	W/mK	0.21	0.21	0.21
	Specific heat	JIS K 7123			J/g°C	1.5	1.5	1.5
<b>Electrical</b>	Surface resistivity 28°C 75%RH	JIS K 6911		D257	$\Omega$	$>10^{16}$	$>10^{16}$	$>10^{16}$
	Volume resistivity	JIS K 6911		D257	$\Omega$ -cm	$>10^{16}$	$>10^{16}$	$>10^{16}$
	Dielectric strength ,short time test	JIS K 6911		D149	kV/mm	20	20	20
	Dielectric constant	JIS K 6911		D150				
	60 cycles					4	4	4
	10E3 cycles					4	4	4
	10E6 cycles					3	3	3
	Power factor	JIS K 6911		D150				
	60 cycles					0.06	0.06	0.06
	10E3 cycles					0.04	0.04	0.04
	10E6 cycles					0.02	0.02	0.02
Arc resistance	JIS K 6911		D495		No track	No track	No track	
<b>Miscellaneous</b>	Flammability (Burning rate)	JIS K6718	ISO 1210	D635	mm/min	33	33	22
	Water absorption (Wt gain on immersion for 24hrs)	JIS K 7209	ISO 62 method 1	D570	%	0.3	0.3	0.3
	Soluble matter lost after immersion				%	0.0	0.0	0.0
	Odor					None	None	None
	Taste					None	None	None
<b>Mar resistance</b>	Tabor abrader (100 times)	JIS K 7204	ISO 9352	D1044	haze%	40	1.5	40

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