



table1-1 General Properties (ISO)

Item	Unit	Test Method	Standard, For SMT
			E473i
			Low warpage, High flow
Color			VF2201/BK210P
ISO(JIS)quality-of-the-material display:		ISO11469 (JIS K6999)	>LCP-(MD+GF)30<
Density	g/cm <sup>3</sup>	ISO 1183	1.63
Water absorption (23°C,24hrs,1mmt)	%	ISO 62	0.02
Tensile strength	MPa	ASTM D638	125
Tensile elongation	%	ASTM D638	2.8
Flexural strength	MPa	ISO 178	160
Flexural modulus	MPa	ISO 178	11,000
Flexural strain	%	ISO 178	2.8
Charpy notched impact strength (23°C)	kJ/m <sup>2</sup>	ISO 179/1eA	20
Temperature of deflection under load (1.8MPa)	°C	ISO 75-1,2	250
Temperature of deflection under load (0.45MPa)	°C	ISO 75-1,2	275
Electric strength (1mmt)	kV/mm	IEC 60243-1	53
Electric strength (3mmt)	kV/mm	IEC 60243-1	26
Volume resistivity	Ω·cm	IEC 60093	1 × 10 <sup>16</sup>
Volume resistivity (Our standard)	Ω·cm		-
Relative permittivity (1kHz)		IEC 60250	4.2
Relative permittivity (1MHz)		IEC 60250	3.7
Dielectric dissipation factor (1kHz)		IEC 60250	0.02
Dielectric dissipation factor (1MHz)		IEC 60250	0.03
Tracking resistance (CTI)	V	IEC 60112	150
Arc resistance	s	ASTM D495	151
Mold Shrinkage (80×80×1mmt, Flow direction, Inj. pressure 60MPa)	%	Our standard	0.03
Mold Shrinkage (80×80×1mmt, Trans-direction, Inj. pressure60MPa)	%	Our standard	0.39
Mold Shrinkage (80×80×1mmt, Flow direction, Inj. pressure79MPa)	%	Our standard	-
Mold Shrinkage (80×80×1mmt, Trans direction, Inj pressure 79MPa)	%	Our standard	-
Rockwell hardness	M(Scale)	ISO2039-2	55
Flammability		UL94	V-0
The yellow card File No.			

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			E473i
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Appropriate List number of Ministerial Ordinance for Export Trade Control			Item 16 of Appendix -1

All figures in the table are the typical values of the material and not the minimum values of the material specifications.