



table1-1 General Properties (ISO)

Item	Unit	Test Method	Standard, High flow, for SMT
			MGA130
			GF Reinforced
Color			NAT/BLK
ISO quality-of-the-material display:		ISO11469	>LCP-GF30<
Density	g/cm ³	ISO 1183	1.61
Water absorption (23°C,24hrs,1mmt)	%	ISO 62	-
Tensile strength	MPa	ASTM D638	150
Tensile elongation	%	ASTM D638	1.6
Flexural strength	MPa	ISO 178	200
Flexural modulus	MPa	ISO 178	15,000
Flexural strain	%	ISO 178	1.8
Charpy notched impact strength (23°C)	kJ/m ²	ISO 179/1eA	20
Temperature of deflection under load (1.8MPa)	°C	ISO 75-1,2	280
Temperature of deflection under load (0.45MPa)	°C	ISO 75-1,2	300
Electric strength (1mmt)	kV/mm	IEC 60243-1	48
Electric strength (3mmt)	kV/mm	IEC 60243-1	23
Volume resistivity	Ω·cm	IEC 60093	3 × 10 ¹⁶
Volume resistivity (Our standard)	Ω·cm		-
Relative permittivity (1kHz)		IEC 60250	4.1
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	175
Arc resistance	s	ASTM D495	127
Mold Shrinkage (80×80×1mmt, Flow direction, Inj. pressure 60MPa)	%	Our standard	0.01
Mold Shrinkage (80×80×1mmt, Transverse direction, Inj. pressure 60MPa)	%	Our standard	0.42
Mold Shrinkage (80×80×1mmt, Flow direction, Inj. pressure 79MPa)	%	Our standard	-
Mold Shrinkage (80×80×1mmt, Transverse direction, Inj. pressure 79MPa)	%	Our standard	-
Rockwell hardness	M(Scale)	ISO2039-2	-
Flammability		UL94	V-0

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