



table1-1 General Properties (ISO)

Item	Unit	Test Method	High strength · High Toughness
			MA130
			GF reinforced
Color			NAT/BLK
ISO Quality-of-the-material display:		ISO11469	>LCP-GF30<
Density	g/cm <sup>3</sup>	ISO 1183	1.61
Water absorption (23°C,24hrs,1mmt)	%	ISO 62	0.02
Tensile strength	MPa	ASTM D638	210
Tensile elongation	%	ASTM D638	2.2
Flexural strength	MPa	ISO 178	270
Flexural modulus	MPa	ISO 178	15,000
Flexural strain	%	ISO 178	3.0
Charpy notched impact strength (23°C)	kJ/m <sup>2</sup>	ISO 179/1eA	35
Temperature of deflection under load (1.8MPa)	°C	ISO 75-1,2	240
Temperature of deflection under load (0.45MPa)	°C	ISO 75-1,2	-
Electric strength (1mmt)	kV/mm	IEC 60243-1	45
Electric strength (3mmt)	kV/mm	IEC 60243-1	24
Volume resistivity	Ω·cm	IEC 60093	3 × 10 <sup>16</sup>
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	0.02
Tracking resistance (CTI)	V	IEC 60112	125
Arc resistance	s	ASTM D495	137
Mold Shrinkage (80×80×1mmt, Flow direction, Inj. pressure 60MPa)	%	Our standard	0.01
Mold Shrinkage (80×80×1mmt, Trans-direction, Inj. pressure60MPa)	%	Our standard	0.45
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	85
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.