



table1-1 General Properties (ISO)

Item	Unit	Test Method	High heat resistance, High-temperature stiffness
			MS471
			Low warpage
Color			NAT/BLK
ISO quality-of-the-material display:		ISO11469	>LCP-(MD+GF)45<
Density	g/cm ³	ISO 1183	1.77
Water absorption (23°C,24hrs,1mmt)	%	ISO 62	0.01
Tensile strength	MPa	ASTM D638	130
Tensile elongation	%	ASTM D638	2.0
Flexural strength	MPa	ISO 178	180
Flexural modulus	MPa	ISO 178	12,700
Flexural strain	%	ISO 178	2.0
Charpy notched impact strength (23°C)	kJ/m ²	ISO 179/1eA	6
Temperature of deflection under load (1.8MPa)	°C	ISO 75-1,2	315
Temperature of deflection under load (0.45MPa)	°C	ISO 75-1,2	335
Electric strength (1mmt)	kV/mm	IEC 60243-1	40
Electric strength (3mmt)	kV/mm	IEC 60243-1	20
Volume resistivity	Ω·cm	IEC 60093	1 × 10 ¹⁶
Volume resistivity (Our standard)	Ω·cm		-
Relative permittivity (1kHz)		IEC 60250	4.1
Relative permittivity (1MHz)		IEC 60250	4.0
Dielectric dissipation factor (1kHz)		IEC 60250	0.01
Dielectric dissipation factor (1MHz)		IEC 60250	0.01
Tracking resistance (CTI)	V	IEC 60112	150
Arc resistance	s	ASTM D495	183
Mold Shrinkage (80×80×1mmt, Flow direction, Inj. pressure 60MPa)	%	Our standard	0.10
Mold Shrinkage (80×80×1mmt, Trans-direction, Inj. pressure60MPa)	%	Our standard	0.33
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	75
Flammability		UL94	V-0

Item	Unit	Test Method	High heat resistance, High-temperature stiffness
			MS471
			Low warpage

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