



SUMIKASUPER E6807T

		Method	Unit	E6807T
Color				Natural, Black
Filler		-		Mineral
Glass fiber type		-		-
Filler content		-	%	35
Physical property				
Specific gravity		ASTM D792		1.67
Mold shrinkage	MD	Sumitomo Original*1	%	0.31
	TD		%	1.01
Mechanical property				
Tensile	strength	ASTM D638	MPa	106
	elongation		%	9.8
	strength	ISO 527	MPa	87
	modulus		GPa	6.5
	elongation		%	6.0
Flexural	strength	ASTM D790	MPa	97
	modules		GPa	7.3
	strength	ISO 178	MPa	106
	modulus		GPa	7.6
Izod impact strength		D256	J/m	515
Non-notched		ISO 180	J/m	475
Charpy impact strength		ISO 179	KJ/m ²	55
Non-notched			KJ/m ²	-
Rockwell strength			R scale	-
Thermal property				
TDUL		ASTM D648	deg C	257
1.82MPa for ASTM/1.80MPa for ISO		ISO 75	deg C	240
Solder resistance		Sumitomo Original*2	deg C	300
Liner expansion coefficient	MD	Sumitomo Original*3	×10 ⁻⁵ /deg C	-
	TD			-
Dielectric property				
Dielectric constant		ASTM D150	1MHz	-
			1GHz	-
Dielectric tangent			1MHz	-
			1GHz	-
Dielectric breakdown voltage		Short time method	kV/mm	-
Specific volume resistance		ASTM D257	Ωm	10 ¹³
Specific surface resistance			Ω	10 ¹⁶
Arc resistance		ASTM D495	sec.	-
Tracking resistance		IEC method	V	-
Flammability				
Flame retardency		UL 94		V-0 at 0.3mmt

Limited Oxygen Index	JIS K 7201	-
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<Note>

All the data above are just for reference, not intended for any guarantee on the product.

*1: The tool of 64mm X 64mm X 3mm was used to determine mold shrinkages.

*2: The highest temperature at which dumbbell shaped test pieces of 1.2mm does not deform after immersing in a solder bath for 60 seconds.

*3: The center part of the test piece for tensile property was used.

Standard molding conditions		
Pre-drying		deg C for hours
		About 130 deg C for 4 to 24 hours
Cylinder temperature	Nozzle	deg C
	Front	deg C
	Middle	deg C
	Rear	deg C
Suitable resin temperature		deg C
		350
Tool (Mold) temperature		deg C
		40 to 160
Injection velocity		-
		Middle to High
Injection pressure		MPa
		80 to 160
Holding pressure		MPa
		20 to 40
Back pressure		MPa
		1 to 5
Screw rotation		rpm
		50 to 100