



SUMIKASUPER E5008

		Method	Unit	E5008
Color				Natural, Black
Filler		-		Glass fiber
Glass fiber type		-		Milled
Filler content		-	%	40
Physical property				
Specific gravity		ASTM D792		1.69
Mold shrinkage	MD	Sumitomo Original*1	%	0.06
	TD		%	1.25
Mechanical property				
Tensile	strength	ASTM D638	MPa	111
	elongation		%	4.8
	strength	ISO 527	MPa	101
	modulus		GPa	11.9
	elongation		%	2.5
Flexural	strength	ASTM D790	MPa	127
	modules		GPa	12.2
	strength	ISO 178	MPa	144
	modulus		GPa	13.3
Izod impact strength		D256	J/m	441
Non-notched		ISO 180	J/m	401
Charpy impact strength		ISO 179	J/m	54
Non-notched				
Rockwell strength			R scale	89
Thermal property				
TDUL		ASTM D648	deg C	335
1.82MPa for ASTM/1.80MPa for ISO		ISO 75	deg C	
Solder resistance		Sumitomo Original*2	deg C	340
Liner expansion coefficient	MD	Sumitomo Original*3	×10 ⁻⁵ /deg C	0.1
	TD			6.4
Dielectric property				
Dielectric constant		ASTM D150	1MHz	4.2
			1GHz	-
Dielectric tangent			1MHz	0.031
			1GHz	-
Dielectric breakdown voltage		Short time method	kV/mm	> 40
Specific volume resistance		ASTM D257	Ωm	10 ¹³
Specific surface resistance			Ω	10 ¹⁶
Arc resistance		ASTM D495	sec.	128
Tracking resistance		IEC method	V	175
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	390 to 410
	Front	deg C	390 to 410
	Middle	deg C	370 to 390
	Rear	deg C	350 to 3750
Suitable resin temperature		deg C	400
Tool (Mold) temperature		deg C	40 to 160
Injection velocity		-	Middle to High
Injection pressure		MPa	120 to 160
Holding pressure		MPa	40 to 60
Back pressure		MPa	1 to 5
Screw rotation		rpm	50 to 100