



SUMIKASUPER E6007LHF Z

		Method	Unit	E6007LHF Z	
Color				Natural, Black	
Filler		-		Glass fiber	
Glass fiber type		-		Chopped	
Filler content		-	%	35	
Physical property					
Specific gravity		ASTM D792		1.65	
Mold shrinkage	MD	Sumitomo Original*1	%	0.20	
	TD		%	0.60	
Mechanical property					
Tensile	strength	ASTM D638	MPa	157	
	elongation		%	5.1	
	strength	ISO 527	MPa	120	
	modulus		GPa	12.5	
	elongation		%	1.5	
Flexural	strength	ASTM D790	MPa	158	
	modules		GPa	11.8	
	strength	ISO 178	MPa	177	
	modulus		GPa	11.0	
Izod impact strength		D256	J/m	251	
Non-notched		ISO 180	J/m	232	
Charpy impact strength		ISO 179	KJ/m ²	29	
Non-notched			KJ/m ²	-	
Rockwell strength			R scale	106	
Thermal property					
TDUL		ASTM D648	deg C	269	
1.82MPa for ASTM/1.80MPa for ISO		ISO 75	deg C	276	
Solder resistance		Sumitomo Original*2	deg C	305	
Liner expansion coefficient	MD	Sumitomo Original*3	×10 ⁻⁵ /deg C	0.2	
	50 - 250°C TD				8.5
Dielectric property					
Dielectric constant			ASTM D150	1MHz	3.8
				1GHz	3.5
Dielectric tangent				1MHz	0.026
				1GHz	0.004
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.	124	
Tracking resistance		IEC method	V	175	
Flammability					
Flame retardency		UL 94		V-0 at 0.3mmt	
Limited Oxygen Index		JIS K 7201		40	

<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 3mmt was used to determine mold shrinkages.

*2: The highest temperature at which dumbbell shaped test pieces of 1.2mmt 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	340 to 360
	Front	deg C	340 to 360
	Middle	deg C	320 to 340
	Rear	deg C	280 to 320
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