



PRELIMINARY DATASHEET  
**SUMIKASUPER SV6808THF**

		Method	Unit	SV6808THF
Color				Natural, Black
Filler		-		Glass Fiber/Mineral
Glass fiber type		-		Chopped
Filler content		-	%	40
<b>Physical property</b>				
Specific gravity		ASTM D792		1.72
Mold shrinkage	MD	Sumitomo Original* <sup>1</sup>	%	0.25
	TD		%	0.56
<b>Mechanical property</b>				
Tensile	strength	ASTM D638	MPa	124
	elongation		%	4.9
	strength	ISO 527	MPa	
	modulus		GPa	
	elongation		%	
Flexural	strength	ASTM D790	MPa	139
	modules		GPa	9.8
	strength	ISO 178	MPa	
	modulus		GPa	
Izod impact strength		D256	J/m	358
Non-notched		ISO 180	J/m	
Charpy impact strength		ISO 179	J/m	
Non-notched				
Rockwell strength			R scale	
<b>Thermal property</b>				
TDUL		ASTM D648	deg C	270
1.82MPa for ASTM/1.80MPa for ISO		ISO 75	deg C	
Solder resistance		Sumitomo Original* <sup>2</sup>	deg C	290
Liner expansion coefficient	MD	Sumitomo Original* <sup>3</sup>	×10 <sup>-5</sup> /deg C	
	TD			
<b>Electrical property</b>				
Dielectric constant		ASTM D150	1MHz	
			1GHz	
Dielectric tangent			1MHz	
			1GHz	
Dielectric breakdown voltage		Short time method	kV/mm	
Specific volume resistance		ASTM D257	Ωm	
Specific surface resistance			Ω	
Arc resistance		ASTM D495	sec.	
Tracking resistance		IEC method	V	

<b>Flammability</b>			
Flame retardency	UL 94		V-0 at 0.3mmt
Limited Oxygen Index	JIS K 7201		

<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.

<b>Standard molding conditions</b>			
Pre-drying		deg C for hours	About 130 deg C for 4 to 24 hours
Cylinder temperature	Nozzle	deg C	330 to 370
	Front	deg C	340 to 370
	Middle	deg C	310 to 340
	Rear	deg C	310 to 340
Suitable resin temperature		deg C	360
Tool (Mold) temperature		deg C	40 to 160
Injection velocity		-	Middle to High
Injection pressure		MPa	40 to 180
Holding pressure		MPa	30 to 70
Back pressure		MPa	1 to 5
Screw rotation		rpm	50 to 250