SUMITOMO CHEMICAL

August 28, 2012

SUMIKASUPER SZ6712L
Preliminary Datasheet

		Method	Unit	SZ6712L
Color				White
Filler		-		Mineral
Glass fiber type		-		-
Filler content		-	%	60
Physical property				
Specific gravity		ASTM D792		2.21
Mold shrinkage	MD	Sumitomo Original*1	%	0.32
	TD		%	0.75
Mechanical property				
Tensile	strength	ASTM D638	MPa	85
	elongation		%	4.0
	strength	ISO 527	MPa	-
	modulus		GPa	-
	elongation		%	-
Flexural	strength	ASTM D790	MPa	110
	modules		GPa	10.4
	strength	ISO 178	MPa	-
	modulus		GPa	-
Izod impact strength		D256	J/m	140
Non-notched		ISO 180	J/m	-
Charpy impact strength		ISO 179	J/m	-
Non-notched				-
Rockwell strength			R scale	-
Thermal property				
TDUL		ASTM D648	deg C	240
1.82MPa for ASTM/1.80MPa for ISO		ISO 75	deg C	-
Solder resistance		Sumitomo Original*2	deg C	250
Liner expansion coefficient	MD	Sumitomo Original*3	$\times 10^{-5}$/deg C	-
50 - 250℃	TD			-
Thermal Conductivity		JIS R2618	W/mk	-
			kcal/mhrdeg C	-
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	-
Flammability			
Flame retardency	UL 94		-
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.

Standard molding conditions			
Pre-drying		deg C for hours	About 130 deg C for 4 to 24 hours
Cylinder temperature	Nozzle	deg C	320 to 360
	Front	deg C	320 to 360
	Middle	deg C	300 to 340
	Rear	deg C	280 to 320
Suitable resin temperature		deg C	330
Tool (Mold) temperature		deg C	40 to 160
Injection velocity		-	Middle to High
Injection pressure		MPa	80 to 160
Holding pressure		MPa	20 to 60
Back pressure		MPa	1 to 5
Screw rotation		rpm	50 to 100