



SUMIKASUPER E6008 MR

		Method	Unit	E6008 MR
Color				Natural, Black
Filler		-		Glass fiber
Glass fiber type		-		Milled
Filler content		-	%	40
Physical property				
Specific gravity		ASTM D792		1.70
Mold shrinkage	MD	Sumitomo Original ^{*1}	%	0.18
	TD		%	1.16
Mechanical property				
Tensile	strength	ASTM D638	MPa	147
	elongation		%	5.2
	strength	ISO 527	MPa	92
	modulus		GPa	9.8
	elongation		%	4.0
Flexural	strength	ASTM D790	MPa	143
	modules		GPa	12.3
	strength	ISO 178	MPa	140
	modulus		GPa	11.4
Izod impact strength		D256	J/m	108
Non-notched		ISO 180	J/m	386
Charpy impact strength		ISO 179	J/m	48
Non-notched				
Rockwell strength			R scale	103
Thermal property				
TDUL		ASTM D648	deg C	279
1.82MPa for ASTM/1.80MPa for ISO		ISO 75	deg C	268
Solder resistance		Sumitomo Original ^{*2}	deg C	300
Liner expansion coefficient	MD	Sumitomo Original ^{*3}	×10 ⁻⁵ /deg C	1.3
	TD			5.6
Dielectric property				
Dielectric constant	ASTM D150		1MHz	3.9
			1GHz	3.2
Dielectric tangent			1MHz	0.022
			1GHz	0.005
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.	130
Tracking resistance		IEC method	V	125
Flammability				
Flame retardency		UL 94		V-0 at 0.15mmt
Limited Oxygen Index		JIS K 7201		48

<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		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