



## SUMIKASUPER SZ6505HF

		Method	Unit	SZ6505HF
Color				Natural, Black
Filler		-		Mineral
Glass fiber type		-		-
Filler content		-	%	25
<b>Physical property</b>				
Specific gravity		ASTM D792		1.58
Mold shrinkage	MD	Sumitomo Original*1	%	0.22
	TD		%	0.60
<b>Mechanical property</b>				
Tensile	strength	ASTM D638	MPa	130
	elongation		%	7.0
	strength	ISO 527	MPa	-
	modulus		GPa	-
	elongation		%	-
Flexural	strength	ASTM D790	MPa	140
	modulus		GPa	11.2
	strength	ISO 178	MPa	-
	modulus		GPa	-
Izod impact strength		D256	J/m	430
Non-notched		ISO 180	J/m	-
Charpy impact strength		ISO 179	KJ/m <sup>2</sup>	-
Non-notched			KJ/m <sup>2</sup>	-
Rockwell strength			R scale	-
<b>Thermal property</b>				
TDUL		ASTM D648	deg C	244
1.82MPa for ASTM/1.80MPa for ISO		ISO 75	deg C	-
Solder resistance		Sumitomo Original*2	deg C	280
Liner expansion coefficient	MD	Sumitomo Original*3	×10 <sup>-5</sup> /deg C	1.1
	TD			7.6
<b>Dielectric property</b>				
Dielectric constant		ASTM D150	1MHz	3.8
			1GHz	3.4
Dielectric tangent			1MHz	0.023
			1GHz	0.004
Dielectric breakdown voltage		Short time method	kV/mm	-
Specific volume resistance		ASTM D257	Ωm	10 <sup>13</sup>
Specific surface resistance			Ω	10 <sup>16</sup>
Arc resistance		ASTM D495	sec.	-
Tracking resistance		IEC method	V	-
<b>Flammability</b>				
Flame retardancy		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
	Front	deg C
	Middle	deg C
	Rear	deg C
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