

**SUMIKASUPER® E5002L**

LCP-GF

Sumitomo Chemical Co., Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.0007	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0127	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Strength	150	MPa	ASTM D 638
Elongation at Break	4.7	%	ASTM D 638
Flexural Modulus	9510	MPa	ASTM D 790
Flexural Strength	127	MPa	ASTM D 790
Izod Impact notched, 1/8 in	175	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	480	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.3	mm	-
DTUL @ 264 psi	354	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Dissipation Factor, 1 MHz	0.023	-	ASTM D 150
Dielectric Constant, 1 MHz	3.4	-	ASTM D 150
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1450	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	130	°C	-
Pre-drying - Time	4 - 24	h	-
Melt temperature	400	°C	-
Mold temperature	40 - 160	°C	-
Zone 1	350 - 370	°C	-
Zone 2	370 - 390	°C	-
Zone 3	390 - 410	°C	-
Nozzle temperature	390 - 410	°C	-
Screw speed	50 - 100	rpm	-
Injection pressure	120 - 160	MPa	-
Back pressure	1 - 5	MPa	-
Holding pressure	40 - 60	MPa	-

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

Heat stabilized or stable to heat

**Features**

Low Warpage

**Regional Availability**

North America, Europe, Asia Pacific