

**SUMIKASUPER® E6810LHF**

LCP-(GF+X)50

Sumitomo Chemical Co., Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	<b>0.0013</b>	mm/mm	ASTM D 955
Mold Shrinkage, TD	<b>0.0038</b>	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Strength	<b>105</b>	MPa	ASTM D 638
Elongation at Break	<b>4</b>	%	ASTM D 638
Flexural Modulus	<b>12600</b>	MPa	ASTM D 790
Flexural Strength	<b>133</b>	MPa	ASTM D 790
Rockwell Hardness	<b>R 102</b>	-	ASTM D 785
Izod Impact unnotched, 1/8 in	<b>200</b>	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
UL 94 Flame rating	<b>V-0</b>	-	UL 94
Thickness tested	<b>0.3</b>	mm	-
DTUL @ 264 psi	<b>266</b>	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Dissipation Factor, 1 MHz	<b>0.02</b>	-	ASTM D 150
Dielectric Constant, 1 MHz	<b>4.1</b>	-	ASTM D 150
Volume Resistivity	<b>1E15</b>	Ohm*cm	ASTM D 257
Arc Resistance	<b>181</b>	s	ASTM D 495

Other properties	Value	Unit	Test Standard
Density	<b>1820</b>	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	<b>130</b>	°C	-
Pre-drying - Time	<b>4 - 24</b>	h	-
Melt temperature	<b>350</b>	°C	-
Mold temperature	<b>40 - 160</b>	°C	-
Zone 1	<b>280 - 320</b>	°C	-
Zone 2	<b>320 - 340</b>	°C	-
Zone 3	<b>340 - 360</b>	°C	-
Nozzle temperature	<b>340 - 360</b>	°C	-
Screw speed	<b>50 - 100</b>	rpm	-
Injection pressure	<b>80 - 160</b>	MPa	-
Back pressure	<b>1 - 5</b>	MPa	-
Holding pressure	<b>20 - 40</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Delivery form**

Black, Natural Color

**Features**

Low Warpage

**Regional Availability**

North America, Europe, Asia Pacific