

SUMIKASUPER® E6807LHF Z

LCP-(GF+MX)35

Sumitomo Chemical Co., Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.002	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0073	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	10600	MPa	ISO 527
Tensile Strength	112	MPa	ISO 527
Flexural modulus, 23°C	9100	MPa	ISO 178
Charpy impact strength, +23°C	31	kJ/m ²	ISO 179/1eU
ASTM Data			
Tensile Strength	135	MPa	ASTM D 638
Flexural Modulus	10500	MPa	ASTM D 790
Flexural Strength	143	MPa	ASTM D 790
Izod Impact unnotched, 1/8 in	335	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	278	°C	ISO 75-1/-2
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.3	mm	-
DTUL @ 264 psi	269	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dissipation Factor, 1 MHz	0.03	-	ASTM D 150
Dielectric Constant, 1 MHz	3.8	-	ASTM D 150
Surface Resistivity	>1E15	Ohm	ASTM D 257
Volume Resistivity	1E15	Ohm*cm	ASTM D 257
Arc Resistance	130	s	ASTM D 495

Other properties	Value	Unit	Test Standard
Density	1670	kg/m ³	ASTM D 792

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

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Delivery form

Black, Natural Color