SUMIKASUPER® E6807LHF

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
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
Burning behav. at thickness h	**V-0**	class	IEC 60695-11-10
Thickness tested	**0.3**	mm	-
Yellow Card available	**yes**	-	-
ASTM Data			
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

Other properties	Value	Unit	Test Standard
Density	**1670**	kg/m³	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
Pellets, Black, Natural Color