

SUMIKASUPER® E6109F

LCP-X45

Sumitomo Chemical Co., Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.0025	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0121	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Strength	88	MPa	ISO 527
Flexural modulus, 23°C	9900	MPa	ISO 178
ASTM Data			
Tensile Strength	126	MPa	ASTM D 638
Flexural Modulus	11500	MPa	ASTM D 790
Flexural Strength	112	MPa	ASTM D 790
Izod Impact unnotched, 1/8 in	382	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	247	°C	ISO 75-1/-2
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.81	mm	-
DTUL @ 264 psi	270	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Volume Resistivity	1E15	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1800	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

Delivery form

Black

Regional Availability

North America, Europe, Asia Pacific