

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	10	g/10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	10	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.006	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3570	MPa	ISO 527
Yield stress	50	MPa	ISO 527
Yield strain	5	%	ISO 527
Stress at break	48	MPa	ISO 527
Strain at break	8	%	ISO 527
Flexural modulus, 23°C	3100	MPa	ISO 178
Flexural strength	85	MPa	ISO 178
Charpy notched impact strength, +23°C	17⁽¹⁾	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	9⁽¹⁾	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	15⁽¹⁾	kJ/m ²	ISO 180/1A
Izod notched impact strength	7⁽¹⁾	kJ/m ²	ISO 180/1A
Temperature	-40	°C	-
Rockwell hardness	R 120	-	ISO 2039-2
ASTM Data			
Tensile Modulus	3897	MPa	ASTM D 638
Tensile Strength at Yield	54	MPa	ASTM D 638
Tensile Strength at Break	45.1	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	18	%	ASTM D 638
Flexural Modulus	2845	MPa	ASTM D 790
Flexural Strength	93.2	MPa	ASTM D 790
Rockwell Hardness	R 120	-	ASTM D 785
Izod Impact notched, 1/8 in	196	J/m	ASTM D 256
Izod Impact notched, 1/4 in	137	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	88.3	J/m	ASTM D 256
Temperature	-30	°C	-

1: 4 mm

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	122⁽²⁾	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	134⁽²⁾	°C	ISO 75-1/-2
Vicat softening temperature, B	138	°C	ISO 306
Coeff. of linear therm. expansion, parallel	48	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	77	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Burning behav. at thickness h	V-1	class	IEC 60695-11-10
Thickness tested	1.0	mm	-
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	0.8	mm	-
Coefficient of Thermal Expansion, MD	48	E-6/K	ASTM D 696

LUPOY SP2101F

(PC+SI)-GF10

LG Chem

Coefficient of Thermal Expansion, TD	77	E-6/K	ASTM D 696
DTUL @ 66 psi	134^[3]	°C	ASTM D 648
DTUL @ 264 psi	121^[3]	°C	ASTM D 648
Vicat Temperature	138	°C	ASTM D 1525

2: 4 mm 3: 6.4 mm

Electrical properties	Value	Unit	Test Standard
ISO Data			
Volume resistivity	1E15	Ohm*m	IEC 62631-3-1
Surface resistivity	1E15	Ohm	IEC 62631-3-2
ASTM Data			
Dielectric Strength, Short Time	19	kV/mm	ASTM D 149
Surface Resistivity	1E15	Ohm	ASTM D 257
Volume Resistivity	1E17	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.2	%	Sim. to ISO 62
Density	1240	kg/m ³	ISO 1183
Density	1240	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	95 - 105	°C	-
Pre-drying - Time	3 - 5	h	-
Processing humidity	≤0.02	%	-
Melt temperature	235 - 265	°C	-
Mold temperature	80 - 120	°C	-
Zone 1	260 - 275	°C	-
Zone 2	270 - 285	°C	-
Zone 3	280 - 295	°C	-
Nozzle temperature	270 - 285	°C	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Flame retardant, Halogen-free, High impact or impact modified

Applications

Electrical and Electronical, General Purpose

Regional Availability

North America, Europe, Asia Pacific, South and Central America