

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt flow index, MFI	10	g/10min	ISO 1133
Temperature	250	°C	-
Load	2.16	kg	-
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Molding shrinkage, normal	0.3	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Melt Flow Index, MFI	10	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.003	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.003	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	4520	MPa	ISO 527
Stress at break	82	MPa	ISO 527
Strain at break	2.3	%	ISO 527
Flexural modulus, 23°C	4530	MPa	ISO 178
Flexural strength	115	MPa	ISO 178
Charpy notched impact strength, +23°C	7 <sup>(1)</sup>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	5 <sup>(1)</sup>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	7 <sup>(1)</sup>	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	6 <sup>(1)</sup>	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-40	°C	-
Rockwell hardness	R 121	-	ISO 2039-2
<b>ASTM Data</b>			
Tensile Modulus	4638	MPa	ASTM D 638
Tensile Strength at Break	76.5	MPa	ASTM D 638
Elongation at Break	2.4	%	ASTM D 638
Flexural Modulus	4218	MPa	ASTM D 790
Flexural Strength	117	MPa	ASTM D 790
Rockwell Hardness	R 121	-	ASTM D 785
Izod Impact notched, 1/8 in	68.7	J/m	ASTM D 256
Izod Impact notched, 1/4 in	58.9	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	58.9	J/m	ASTM D 256
Temperature	-30	°C	-

1: 4 mm

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	86	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	93	°C	ISO 75-1/-2
Vicat softening temperature, B	94	°C	ISO 306
Coeff. of linear therm. expansion, parallel	36	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	81	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	-
<b>ASTM Data</b>			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	1.5	mm	-
Coefficient of Thermal Expansion, MD	36	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	81	E-6/K	ASTM D 696
DTUL @ 66 psi	93	°C	ASTM D 648
DTUL @ 264 psi	91	°C	ASTM D 648
Vicat Temperature	94	°C	ASTM D 1525

**LUPOY GN5151FL**

(PC+ABS)-GF15

LG Chem

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Volume resistivity	<b>1E15</b>	Ohm*m	IEC 62631-3-1
Surface resistivity	<b>1E15</b>	Ohm	IEC 62631-3-2
<b>ASTM Data</b>			
Dielectric Strength, Short Time	<b>22</b>	kV/mm	ASTM D 149
Surface Resistivity	<b>1E15</b>	Ohm	ASTM D 257
Volume Resistivity	<b>1E17</b>	Ohm*cm	ASTM D 257

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Humidity absorption	<b>0.2</b>	%	Sim. to ISO 62
Density	<b>1280</b>	kg/m <sup>3</sup>	ISO 1183
Density	<b>1280</b>	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>80 - 85</b>	°C	-
Pre-drying - Time	<b>4 - 5</b>	h	-
Processing humidity	<b>≤0.02</b>	%	-
Melt temperature	<b>240 - 260</b>	°C	-
Mold temperature	<b>60 - 80</b>	°C	-
Zone 1	<b>230 - 240</b>	°C	-
Zone 2	<b>240 - 260</b>	°C	-
Zone 3	<b>240 - 265</b>	°C	-
Nozzle temperature	<b>245 - 255</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

Flame retardant, Halogen-free

**Applications**

Electrical and Electronical, General Purpose

**Regional Availability**

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