

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt flow index, MFI	11	g/10min	ISO 1133
Temperature	250	°C	-
Load	2.16	kg	-
Molding shrinkage, parallel	0	%	ISO 294-4, 2577
Molding shrinkage, normal	0	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Melt Flow Index, MFI	11	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.005	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.005	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2310	MPa	ISO 527
Yield stress	68	MPa	ISO 527
Yield strain	4.5	%	ISO 527
Stress at break	54	MPa	ISO 527
Strain at break	118	%	ISO 527
Flexural modulus, 23°C	2420	MPa	ISO 178
Flexural strength	98	MPa	ISO 178
Charpy notched impact strength, +23°C	11 <sup>[1]</sup>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	8 <sup>[1]</sup>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	10 <sup>[1]</sup>	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	9 <sup>[1]</sup>	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-40	°C	-
Rockwell hardness	R 115	-	ISO 2039-2
<b>ASTM Data</b>			
Tensile Modulus	2381	MPa	ASTM D 638
Tensile Strength at Yield	60.8	MPa	ASTM D 638
Tensile Strength at Break	55.9	MPa	ASTM D 638
Elongation at Yield	4.5	%	ASTM D 638
Elongation at Break	90	%	ASTM D 638
Flexural Modulus	2550	MPa	ASTM D 790
Flexural Strength	102	MPa	ASTM D 790
Rockwell Hardness	R 115	-	ASTM D 785
Izod Impact notched, 1/8 in	540	J/m	ASTM D 256
Izod Impact notched, 1/4 in	88.3	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	78.5	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	87	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	98	°C	ISO 75-1/-2
Vicat softening temperature, B	104	°C	ISO 306
Coeff. of linear therm. expansion, parallel	78	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	88	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	1.2	mm	-
Burning behav. 5V at thickness h	5VB	class	IEC 60695-11-20
Thickness tested	1.5	mm	-
<b>ASTM Data</b>			
UL 94 Flame rating	V-2	-	UL 94
Thickness tested	0.8	mm	-
Coefficient of Thermal Expansion, MD	78	E-6/K	ASTM D 696

**LUPOY GN5001RFB**

(PC+ABS)

LG Chem

Coefficient of Thermal Expansion, TD	<b>88</b>	E-6/K	ASTM D 696
DTUL @ 66 psi	<b>99<sup>[2]</sup></b>	°C	ASTM D 648
DTUL @ 264 psi	<b>92<sup>[2]</sup></b>	°C	ASTM D 648
Vicat Temperature	<b>103</b>	°C	ASTM D 1525

2: 6.4 mm

<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
Comparative tracking index	<b>325</b>	-	IEC 60112
<b>ASTM Data</b>			
Dielectric Strength, Short Time	<b>20</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>1190</b>	kg/m <sup>3</sup>	ISO 1183
Density	<b>1190</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>70 - 90</b>	°C	-
Pre-drying - Time	<b>3 - 4</b>	h	-
Processing humidity	<b>≤0.02</b>	%	-
Melt temperature	<b>230 - 260</b>	°C	-
Mold temperature	<b>40 - 60</b>	°C	-
Zone 1	<b>230 - 240</b>	°C	-
Zone 2	<b>240 - 260</b>	°C	-
Zone 3	<b>250 - 260</b>	°C	-
Nozzle temperature	<b>230 - 260</b>	°C	-

**Characteristics****Processing**

Injection Molding, Other Extrusion

**Applications**

Electrical and Electronical, General Purpose

**Special Characteristics**

Flame retardant, Halogen-free

**Regional Availability**

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