

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	21	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
ASTM Data			
Melt Flow Index, MFI	21	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
ISO Data			
Tensile Modulus	2570	MPa	ISO 527
Yield stress	58	MPa	ISO 527
Yield strain	4	%	ISO 527
Stress at break	49	MPa	ISO 527
Strain at break	75	%	ISO 527
Flexural modulus, 23°C	2500	MPa	ISO 178
Flexural strength	90	MPa	ISO 178
Charpy notched impact strength, +23°C	21 ^[1]	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	11 ^[1]	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	20 ^[1]	kJ/m ²	ISO 180/1A
Izod notched impact strength	11 ^[1]	kJ/m ²	ISO 180/1A
Temperature	-40	°C	-
Rockwell hardness	R 114	-	ISO 2039-2
ASTM Data			
Tensile Modulus	2630	MPa	ASTM D 638
Tensile Strength at Yield	59.8	MPa	ASTM D 638
Tensile Strength at Break	50	MPa	ASTM D 638
Elongation at Yield	4	%	ASTM D 638
Elongation at Break	80	%	ASTM D 638
Flexural Modulus	2501	MPa	ASTM D 790
Flexural Strength	99.1	MPa	ASTM D 790
Rockwell Hardness	R 114	-	ASTM D 785
Izod Impact notched, 1/8 in	598	J/m	ASTM D 256
Izod Impact notched, 1/4 in	157	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	118	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	84	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	92	°C	ISO 75-1/-2
Vicat softening temperature, B	101	°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	-
ASTM Data			
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 GN5001RFG

(PC+ABS)

LG Chem

Coefficient of Thermal Expansion, TD	88	E-6/K	ASTM D 696
DTUL @ 66 psi	95^[2]	°C	ASTM D 648
DTUL @ 264 psi	86^[2]	°C	ASTM D 648
Vicat Temperature	101	°C	ASTM D 1525

2: 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
Comparative tracking index	325	-	IEC 60112
ASTM Data			
Dielectric Strength, Short Time	20	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	1190	kg/m ³	ISO 1183
Density	1190	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	75 - 85	°C	-
Pre-drying - Time	3 - 5	h	-
Processing humidity	≤0.02	%	-
Melt temperature	235 - 265	°C	-
Mold temperature	50 - 80	°C	-
Zone 1	220 - 240	°C	-
Zone 2	235 - 255	°C	-
Zone 3	250 - 265	°C	-
Nozzle temperature	250 - 265	°C	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Flame retardant, Halogen-free

Applications

Automotive, Electrical and Electronical, General Purpose

Regional Availability

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