

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	1.7	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	1.7	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.007	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.007	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2440	MPa	ISO 527
Yield stress	63	MPa	ISO 527
Yield strain	5.4	%	ISO 527
Stress at break	53	MPa	ISO 527
Strain at break	63	%	ISO 527
Flexural modulus, 23°C	2300	MPa	ISO 178
Flexural strength	97	MPa	ISO 178
Charpy notched impact strength, +23°C	14 ^[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	13 ^[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 116	-	ISO 2039-2
ASTM Data			
Tensile Modulus	2530	MPa	ASTM D 638
Tensile Strength at Yield	66.7	MPa	ASTM D 638
Tensile Strength at Break	64.7	MPa	ASTM D 638
Elongation at Yield	5.5	%	ASTM D 638
Elongation at Break	98	%	ASTM D 638
Flexural Modulus	2452	MPa	ASTM D 790
Flexural Strength	98.1	MPa	ASTM D 790
Rockwell Hardness	R 116	-	ASTM D 785
Izod Impact notched, 1/8 in	755	J/m	ASTM D 256
Izod Impact notched, 1/4 in	118	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	100 ^[2]	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	116 ^[2]	°C	ISO 75-1/-2
Vicat softening temperature, B	112	°C	ISO 306
Coeff. of linear therm. expansion, parallel	73	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	79	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	-
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	1.5	mm	-
Coefficient of Thermal Expansion, MD	73	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	79	E-6/K	ASTM D 696
DTUL @ 66 psi	118 ^[3]	°C	ASTM D 648

LUPOY GN5001EF

(PC+ABS)

LG Chem

DTUL @ 264 psi	108 ^[3]	°C	ASTM D 648
Vicat Temperature	123	°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
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	1180	kg/m ³	ISO 1183
Density	1180	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	85 - 95	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	260 - 280	°C	-
Mold temperature	70 - 90	°C	-
Zone 1	240 - 265	°C	-
Zone 2	250 - 270	°C	-
Zone 3	255 - 275	°C	-
Nozzle temperature	260 - 280	°C	-

Characteristics**Processing**

Injection Molding, Other Extrusion

Special Characteristics

Flame retardant, Halogen-free

Applications

Electrical and Electronical

Regional Availability

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