

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	23	g/10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Molding shrinkage, parallel	0.7	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	23	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	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	2480	MPa	ISO 527
Yield stress	61	MPa	ISO 527
Yield strain	6	%	ISO 527
Stress at break	70	MPa	ISO 527
Strain at break	100	%	ISO 527
Flexural modulus, 23°C	2400	MPa	ISO 178
Flexural strength	92	MPa	ISO 178
Charpy notched impact strength, +23°C	12 ^[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	12 ^[1]	kJ/m ²	ISO 180/1A
Izod notched impact strength	8 ^[1]	kJ/m ²	ISO 180/1A
Temperature	-40	°C	-
Rockwell hardness	R 118	-	ISO 2039-2
ASTM Data			
Tensile Modulus	2450	MPa	ASTM D 638
Tensile Strength at Yield	61.8	MPa	ASTM D 638
Tensile Strength at Break	68.7	MPa	ASTM D 638
Elongation at Yield	6	%	ASTM D 638
Elongation at Break	132	%	ASTM D 638
Flexural Modulus	2367	MPa	ASTM D 790
Flexural Strength	107	MPa	ASTM D 790
Rockwell Hardness	R 118	-	ASTM D 785
Izod Impact notched, 1/8 in	736	J/m	ASTM D 256
Izod Impact notched, 1/4 in	78.5	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	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	134	°C	ISO 75-1/-2
Vicat softening temperature, B	141	°C	ISO 306
Coeff. of linear therm. expansion, parallel	73	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	80	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.4	mm	-
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	0.37	mm	-
Coefficient of Thermal Expansion, MD	73	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	80	E-6/K	ASTM D 696
DTUL @ 66 psi	136	°C	ASTM D 648

LUPOY GP1000LU

PC

LG Chem

DTUL @ 264 psi	130	°C	ASTM D 648
Vicat Temperature	141	°C	ASTM D 1525

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	1200	kg/m ³	ISO 1183
Density	1200	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	100 - 120	°C	-
Pre-drying - Time	3 - 5	h	-
Processing humidity	≤0.02	%	-
Melt temperature	300 - 320	°C	-
Mold temperature	80 - 120	°C	-
Zone 1	260 - 280	°C	-
Zone 2	280 - 300	°C	-
Zone 3	300 - 320	°C	-
Nozzle temperature	300 - 320	°C	-

Characteristics**Processing**

Injection Molding

Special Characteristics

U.V. stabilized or stable to weather

Applications

Automotive, Electrical and Electronical, General Purpose

Regional Availability

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