

LUPOY EU5000

(PC+ABS)

LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	22	g/10min	ISO 1133
Temperature	260	°C	-
Load	5	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	5	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	1770	MPa	ISO 527
Yield stress	46	MPa	ISO 527
Yield strain	5	%	ISO 527
Stress at break	53	MPa	ISO 527
Strain at break	110	%	ISO 527
Flexural modulus, 23°C	1870	MPa	ISO 178
Flexural strength	73	MPa	ISO 178
Charpy notched impact strength, +23°C	52 ^[1]	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	13 ^[1]	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	50 ^[1]	kJ/m ²	ISO 180/1A
Izod notched impact strength	16 ^[1]	kJ/m ²	ISO 180/1A
Temperature	-40	°C	-
Rockwell hardness	R 115	-	ISO 2039-2
ASTM Data			
Tensile Modulus	1964	MPa	ASTM D 638
Tensile Strength at Yield	49	MPa	ASTM D 638
Tensile Strength at Break	56.9	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	100	%	ASTM D 638
Flexural Modulus	1914	MPa	ASTM D 790
Flexural Strength	79.5	MPa	ASTM D 790
Rockwell Hardness	R 115	-	ASTM D 785
Izod Impact notched, 1/8 in	510	J/m	ASTM D 256
Izod Impact notched, 1/4 in	589	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	147	J/m	ASTM D 256

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	125 ^[2]	°C	ISO 75-1/-2
Vicat softening temperature, B	122	°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
ASTM Data			
Coefficient of Thermal Expansion, MD	78	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	88	E-6/K	ASTM D 696
DTUL @ 66 psi	130	°C	ASTM D 648
DTUL @ 264 psi	109	°C	ASTM D 648
Vicat Temperature	123	°C	ASTM D 1525

2: 4 mm

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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
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	1140	kg/m ³	ISO 1183
Density	1140	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 100	°C	-
Pre-drying - Time	4 - 6	h	-
Processing humidity	≤0.02	%	-
Melt temperature	240 - 275	°C	-
Mold temperature	50 - 70	°C	-
Zone 1	240 - 270	°C	-
Zone 2	245 - 275	°C	-
Zone 3	245 - 275	°C	-
Nozzle temperature	245 - 275	°C	-

Characteristics**Processing**

Injection Molding

Special Characteristics

U.V. stabilized or stable to weather

Applications

Electrical and Electronical, General Purpose

Regional Availability

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