LUPOY EU5000FS

(PC+ASA) LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**46**	g/10min	ISO 1133
Temperature	**260**	°C	-
Load	**5**	kg	-
Molding shrinkage, parallel	**0.6**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.6**	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	**10**	g/10min	ASTM D 1238
Temperature	**250**	°C	-
Load	**2.16**	kg	-
Mold Shrinkage, MD	**0.006**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.006**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2000**	MPa	ISO 527
Yield stress	**60**	MPa	ISO 527
Yield strain	**4**	%	ISO 527
Stress at break	**61**	MPa	ISO 527
Strain at break	**100**	%	ISO 527
Flexural modulus, 23°C	**2400**	MPa	ISO 178
Flexural strength	**94**	MPa	ISO 178
Charpy notched impact strength, +23°C	**58**[1]	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**9**[1]	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**50**[1]	kJ/m²	ISO 180/1A
Izod notched impact strength	**6**[1]	kJ/m²	ISO 180/1A
Temperature	**-40**	°C	-
Rockwell hardness	**R 114**	-	ISO 2039-2
ASTM Data			
Tensile Modulus	**2410**	MPa	ASTM D 638
Tensile Strength at Yield	**58.9**	MPa	ASTM D 638
Tensile Strength at Break	**65.7**	MPa	ASTM D 638
Elongation at Yield	**4**	%	ASTM D 638
Elongation at Break	**40**	%	ASTM D 638
Flexural Modulus	**2321**	MPa	ASTM D 790
Flexural Strength	**98.1**	MPa	ASTM D 790
Rockwell Hardness	**R 114**	-	ASTM D 785
Izod Impact notched, 1/8 in	**687**	J/m	ASTM D 256
Izod Impact notched, 1/4 in	**461**	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	**85**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**100**	°C	ISO 75-1/-2
Vicat softening temperature, B	**102**	°C	ISO 306
Coeff. of linear therm. expansion, parallel	**80**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**81**	E-6/K	ISO 11359-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	**80**	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	**81**	E-6/K	ASTM D 696
DTUL @ 66 psi	**100**	°C	ASTM D 648
DTUL @ 264 psi	**93**	°C	ASTM D 648
Vicat Temperature	**107**	°C	ASTM D 1525

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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	**21**	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/m³	ISO 1183
Density	**1190**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**70 - 90**	°C	-
Pre-drying - Time	**3 - 4**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**230 - 260**	°C	-
Mold temperature	**40 - 60**	°C	-
Zone 1	**230 - 240**	°C	-
Zone 2	**240 - 260**	°C	-
Zone 3	**250 - 260**	°C	-
Nozzle temperature	**230 - 260**	°C	-

Characteristics

Processing

Injection Molding

Applications

Automotive, Electrical and Electronical, General Purpose

Special Characteristics

Flame retardant, Halogen-free, U.V. stabilized or stable to weather

Regional Availability

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