

Product Texts

Post Consumer Recycled 60%

Processing/Physical Characteristics

	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	11	g/10min	ISO 1133
Temperature	250	°C	-
Load	2.16	kg	-
Molding shrinkage, parallel	0.5	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	11	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	2500	MPa	ISO 527
Yield stress	59	MPa	ISO 527
Yield strain	3.8	%	ISO 527
Stress at break	47	MPa	ISO 527
Strain at break	60	%	ISO 527
Flexural modulus, 23°C	2400	MPa	ISO 178
Flexural strength	93	MPa	ISO 178
Charpy notched impact strength, +23°C	48 ^[1]	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	15 ^[1]	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	45 ^[1]	kJ/m ²	ISO 180/1A
Izod notched impact strength	15 ^[1]	kJ/m ²	ISO 180/1A
Temperature	-40	°C	-
Rockwell hardness	R 123	-	ISO 2039-2
ASTM Data			
Tensile Modulus	2256	MPa	ASTM D 638
Tensile Strength at Yield	55.9	MPa	ASTM D 638
Tensile Strength at Break	46.6	MPa	ASTM D 638
Elongation at Yield	4.1	%	ASTM D 638
Elongation at Break	60	%	ASTM D 638
Flexural Modulus	2354	MPa	ASTM D 790
Flexural Strength	90.3	MPa	ASTM D 790
Rockwell Hardness	R 123	-	ASTM D 785
Izod Impact notched, 1/8 in	540	J/m	ASTM D 256
Izod Impact notched, 1/4 in	471	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	177	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	82 ^[2]	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	93 ^[2]	°C	ISO 75-1/-2
Vicat softening temperature, B	99	°C	ISO 306
Coeff. of linear therm. expansion, parallel	72	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. thicken.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Burning behav. at thickness h	V-1	class	IEC 60695-11-10
Thickness tested	1.2	mm	-
ASTM Data			

LUPOY ER5001RFH

(PC+ABS)

LG Chem

UL 94 Flame rating	V-0	-	UL 94
Thickness tested	1.5	mm	-
Coefficient of Thermal Expansion, MD	72	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	79	E-6/K	ASTM D 696
DTUL @ 66 psi	98	°C	ASTM D 648
DTUL @ 264 psi	87	°C	ASTM D 648
Vicat Temperature	99	°C	ASTM D 1525

2: 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
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	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	75 - 85	°C	-
Pre-drying - Time	3 - 5	h	-
Processing humidity	≤0.04	%	-
Melt temperature	235 - 270	°C	-
Mold temperature	50 - 80	°C	-
Zone 1	225 - 245	°C	-
Zone 2	240 - 260	°C	-
Zone 3	250 - 280	°C	-
Nozzle temperature	250 - 270	°C	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Flame retardant, Halogen-free

Certifications

Recycled Resin Content

Applications

Electrical and Electronical, General Purpose

Regional Availability

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