

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt flow index, MFI	6.5	g/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-
Molding shrinkage, parallel	0.7	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Melt Flow Index, MFI	6.5	g/10min	ASTM D 1238
Temperature	220	°C	-
Load	10	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
<b>ISO Data</b>			
Tensile Modulus	2150	MPa	ISO 527
Yield stress	50	MPa	ISO 527
Yield strain	4.3	%	ISO 527
Stress at break	43	MPa	ISO 527
Strain at break	30	%	ISO 527
Flexural modulus, 23°C	2000	MPa	ISO 178
Flexural strength	70	MPa	ISO 178
Charpy notched impact strength, +23°C	5.5 <sup>[1]</sup>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	1.1 <sup>[1]</sup>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	5.4 <sup>[1]</sup>	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	2.2 <sup>[1]</sup>	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-30	°C	-
Rockwell hardness	R 119	-	ISO 2039-2
<b>ASTM Data</b>			
Tensile Modulus	2284	MPa	ASTM D 638
Tensile Strength at Yield	53	MPa	ASTM D 638
Tensile Strength at Break	49	MPa	ASTM D 638
Elongation at Yield	4.6	%	ASTM D 638
Elongation at Break	30	%	ASTM D 638
Flexural Modulus	2042	MPa	ASTM D 790
Flexural Strength	75.5	MPa	ASTM D 790
Rockwell Hardness	R 119	-	ASTM D 785
Izod Impact notched, 1/8 in	54	J/m	ASTM D 256
Izod Impact notched, 1/4 in	52	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	28.5	J/m	ASTM D 256
Temperature	-30	°C	-

1: 4 mm

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	75	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	80	°C	ISO 75-1/-2
Vicat softening temperature, B	90	°C	ISO 306
Coeff. of linear therm. expansion, parallel	78	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	91	E-6/K	ISO 11359-1/-2
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	78	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	91	E-6/K	ASTM D 696
DTUL @ 66 psi	85	°C	ASTM D 648
DTUL @ 264 psi	80	°C	ASTM D 648
Vicat Temperature	90	°C	ASTM D 1525

**LUPOS SG5009**

(ASA+PMMA)

LG Chem

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Volume resistivity	<b>1E15</b>	Ohm*m	IEC 62631-3-1
Surface resistivity	<b>1E15</b>	Ohm	IEC 62631-3-2
<b>ASTM Data</b>			
Dielectric Strength, Short Time	<b>23</b>	kV/mm	ASTM D 149
Surface Resistivity	<b>1E15</b>	Ohm	ASTM D 257
Volume Resistivity	<b>1E17</b>	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	<b>0.2</b>	%	Sim. to ISO 62
Density	<b>1150</b>	kg/m <sup>3</sup>	ISO 1183
Density	<b>1150</b>	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	<b>70 - 80</b>	°C	-
Pre-drying - Time	<b>3 - 4</b>	h	-
Processing humidity	<b>≤0.01</b>	%	-
Melt temperature	<b>210 - 240</b>	°C	-
Mold temperature	<b>40 - 60</b>	°C	-
Zone 1	<b>210 - 230</b>	°C	-
Zone 2	<b>210 - 230</b>	°C	-
Zone 3	<b>210 - 230</b>	°C	-
Nozzle temperature	<b>220 - 240</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Delivery form**

Black

**Special Characteristics**

U.V. stabilized or stable to weather

**Features**

Scratch Resistant

**Applications**

Automotive, General Purpose

**Regional Availability**

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