

**LUMILOY TX5300**

(PPE+PA\*)-GF30

LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt flow index, MFI	22	g/10min	ISO 1133
Temperature	280	°C	-
Load	5	kg	-
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Melt Flow Index, MFI	22	g/10min	ASTM D 1238
Temperature	280	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.003	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0075	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	9900	MPa	ISO 527
Yield stress	140	MPa	ISO 527
Yield strain	2.3	%	ISO 527
Stress at break	140	MPa	ISO 527
Strain at break	2.3	%	ISO 527
Flexural modulus, 23°C	7210	MPa	ISO 178
Flexural strength	190	MPa	ISO 178
Charpy notched impact strength, +23°C	5.8 <sup>[1]</sup>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	5.4 <sup>[1]</sup>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	6 <sup>[1]</sup>	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	5.8 <sup>[1]</sup>	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-30	°C	-
Rockwell hardness	R 121	-	ISO 2039-2
<b>ASTM Data</b>			
Tensile Modulus	10240	MPa	ASTM D 638
Tensile Strength at Yield	144	MPa	ASTM D 638
Tensile Strength at Break	138	MPa	ASTM D 638
Elongation at Break	2.5	%	ASTM D 638
Flexural Modulus	6465	MPa	ASTM D 790
Flexural Strength	193	MPa	ASTM D 790
Rockwell Hardness	R 121	-	ASTM D 785
Izod Impact notched, 1/8 in	60.8	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	47.1	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	231 <sup>[2]</sup>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	254 <sup>[2]</sup>	°C	ISO 75-1/-2
Vicat softening temperature, B	235	°C	ISO 306
Coeff. of linear therm. expansion, parallel	29	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	98	E-6/K	ISO 11359-1/-2
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	29	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	98	E-6/K	ASTM D 696
DTUL @ 66 psi	255	°C	ASTM D 648
DTUL @ 264 psi	238	°C	ASTM D 648
Vicat Temperature	235	°C	ASTM D 1525

2: 4 mm

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<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Volume resistivity	<b>1E14</b>	Ohm*m	IEC 62631-3-1
Surface resistivity	<b>1E14</b>	Ohm	IEC 62631-3-2
<b>ASTM Data</b>			
Dielectric Strength, Short Time	<b>20</b>	kV/mm	ASTM D 149
Surface Resistivity	<b>1E14</b>	Ohm	ASTM D 257
Volume Resistivity	<b>1E16</b>	Ohm*cm	ASTM D 257

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Humidity absorption	<b>1.2</b>	%	Sim. to ISO 62
Density	<b>1340</b>	kg/m <sup>3</sup>	ISO 1183
Density	<b>1340</b>	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>100 - 120</b>	°C	-
Pre-drying - Time	<b>6 - 8</b>	h	-
Processing humidity	<b>≤0.07</b>	%	-
Melt temperature	<b>280 - 320</b>	°C	-
Mold temperature	<b>50 - 100</b>	°C	-
Zone 1	<b>270 - 300</b>	°C	-
Zone 2	<b>280 - 320</b>	°C	-
Zone 3	<b>280 - 320</b>	°C	-
Nozzle temperature	<b>285 - 325</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Applications**

General Purpose

**Regional Availability**

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