

**INFINO GP-5300G**

PBT-GF30

Lotte Chemical Corporation

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt flow index, MFI	22	g/10min	ISO 1133
Temperature	250	°C	-
Load	2.16	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	20	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	7500	MPa	ISO 527
Yield stress	141	MPa	ISO 527
Stress at break	141	MPa	ISO 527
Strain at break	4	%	ISO 527
Flexural modulus, 23°C	7900	MPa	ISO 178
Flexural strength	199	MPa	ISO 178
Charpy notched impact strength, +23°C	11	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	11	kJ/m <sup>2</sup>	ISO 180/1A
Rockwell hardness	R 118	-	ISO 2039-2
<b>ASTM Data</b>			
Tensile Modulus	6800	MPa	ASTM D 638
Tensile Strength at Yield	120	MPa	ASTM D 638
Tensile Strength at Break	130	MPa	ASTM D 638
Elongation at Break	3	%	ASTM D 638
Flexural Modulus	8000	MPa	ASTM D 790
Flexural Strength	190	MPa	ASTM D 790
Rockwell Hardness	R 115	-	ASTM D 785
Izod Impact notched, 1/8 in	79	J/m	ASTM D 256

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	206	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	223	°C	ISO 75-1/-2
Vicat softening temperature, B	216	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.7	mm	-
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
<b>ASTM Data</b>			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	0.75	mm	-
DTUL @ 66 psi	225	°C	ASTM D 648
DTUL @ 264 psi	210	°C	ASTM D 648

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	1530	kg/m <sup>3</sup>	ISO 1183
Water Absorption, Equilibrium	0.06	%	ASTM D 570
Density	1530	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	100	°C	-
Pre-drying - Time	4 - 6	h	-
Processing humidity	≤0.05	%	-
Melt temperature	250	°C	-
Mold temperature	60 - 120	°C	-

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Zone 1	<b>210 - 220</b>	°C	-
Zone 2	<b>225 - 230</b>	°C	-
Zone 3	<b>240 - 250</b>	°C	-
Nozzle temperature	<b>250</b>	°C	-
Screw speed	<b>50 - 150</b>	rpm	-
Injection pressure	<b>49 - 250</b>	MPa	-
Back pressure	<b>0.5 - 2</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets, Natural Color

**Applications**

Electrical and Electronical

**Regional Availability**

North America, Europe, Asia Pacific