

**INFINO GP-5000**

PBT

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	71	g/10min	ISO 1133
Temperature	250	°C	-
Load	2.16	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	74	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.0165	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	2300	MPa	ISO 527
Yield stress	55	MPa	ISO 527
Stress at break	47	MPa	ISO 527
Strain at break	15	%	ISO 527
Flexural modulus, 23°C	2100	MPa	ISO 178
Flexural strength	74	MPa	ISO 178
Charpy notched impact strength, +23°C	4.9	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	4.5	kJ/m <sup>2</sup>	ISO 180/1A
Rockwell hardness	R 117	-	ISO 2039-2
<b>ASTM Data</b>			
Tensile Modulus	2200	MPa	ASTM D 638
Tensile Strength at Yield	54	MPa	ASTM D 638
Tensile Strength at Break	46	MPa	ASTM D 638
Elongation at Break	4	%	ASTM D 638
Flexural Modulus	2300	MPa	ASTM D 790
Flexural Strength	83	MPa	ASTM D 790
Rockwell Hardness	R 115	-	ASTM D 785
<b>Thermal properties</b>			
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	59	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	124	°C	ISO 75-1/-2
Vicat softening temperature, B	194	°C	ISO 306
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.7	mm	-
<b>ASTM Data</b>			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	0.7	mm	-
DTUL @ 66 psi	170	°C	ASTM D 648
DTUL @ 264 psi	75	°C	ASTM D 648
<b>Electrical properties</b>			
<b>ISO Data</b>			
Relative permittivity, 1MHz	3.1	-	IEC 62631-2-1
Dissipation factor, 1MHz	200	E-4	IEC 62631-2-1
<b>ASTM Data</b>			
Dissipation Factor, 1 MHz	0.02	-	ASTM D 150
Dielectric Constant, 1 MHz	3.1	-	ASTM D 150
Arc Resistance	140	s	ASTM D 495
<b>Other properties</b>			
<b>Value</b>			
Density	1300	kg/m <sup>3</sup>	ISO 1183
Density	1310	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</b>	°C	-
Pre-drying - Time	<b>2 - 6</b>	h	-
Processing humidity	<b>≤0.05</b>	%	-
Melt temperature	<b>250</b>	°C	-
Mold temperature	<b>60 - 120</b>	°C	-
Zone 1	<b>210 - 220</b>	°C	-
Zone 2	<b>225 - 230</b>	°C	-
Zone 3	<b>240 - 250</b>	°C	-
Nozzle temperature	<b>260</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

**Regional Availability**

North America, Europe, Asia Pacific

**Delivery form**

Pellets, Natural Color