

**INFINO VB-5150GL**

PBT-GF

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	21	g/10min	ISO 1133
Temperature	250	°C	-
Load	2.16	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	21	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.007	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	5200	MPa	ISO 527
Yield stress	98	MPa	ISO 527
Stress at break	98	MPa	ISO 527
Strain at break	3.1	%	ISO 527
Flexural modulus, 23°C	5200	MPa	ISO 178
Flexural strength	134	MPa	ISO 178
Charpy notched impact strength, +23°C	2.8	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	2.8	kJ/m <sup>2</sup>	ISO 180/1A
Rockwell hardness	R 120	-	ISO 2039-2
<b>ASTM Data</b>			
Tensile Modulus	4600	MPa	ASTM D 638
Tensile Strength at Yield	83	MPa	ASTM D 638
Tensile Strength at Break	82	MPa	ASTM D 638
Elongation at Break	3.3	%	ASTM D 638
Flexural Modulus	5800	MPa	ASTM D 790
Flexural Strength	150	MPa	ASTM D 790
Rockwell Hardness	R 118	-	ASTM D 785
Izod Impact notched, 1/8 in	49	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	179	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	210	°C	ISO 75-1/-2
Vicat softening temperature, B	202	°C	ISO 306
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.7	mm	-
<b>ASTM Data</b>			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.74	mm	-
DTUL @ 66 psi	214	°C	ASTM D 648
DTUL @ 264 psi	194	°C	ASTM D 648
<b>Other properties</b>			
<b>Value</b>			
Density	1530	kg/m <sup>3</sup>	ISO 1183
Density	1540	kg/m <sup>3</sup>	ASTM D 792
<b>Processing Recommendation Injection Molding</b>			
<b>Value</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	-
Zone 1	210 - 220	°C	-
Zone 2	225 - 230	°C	-
Zone 3	240 - 250	°C	-

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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

**Regional Availability**

North America, Europe, Asia Pacific

**Delivery form**

Pellets, Natural Color