

INFINO VB-5300GS

PBT-GF30

Lotte Chemical Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	13	g/10min	ISO 1133
Temperature	250	°C	-
Load	2.16	kg	-
ASTM Data			
Melt Flow Index, MFI	15	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Tensile Modulus	8000	MPa	ISO 527
Yield stress	147	MPa	ISO 527
Stress at break	150	MPa	ISO 527
Strain at break	3.6	%	ISO 527
Flexural modulus, 23°C	9000	MPa	ISO 178
Flexural strength	200	MPa	ISO 178
Charpy notched impact strength, +23°C	8.7	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	8.3	kJ/m ²	ISO 180/1A
Rockwell hardness	R 117	-	ISO 2039-2
ASTM Data			
Tensile Modulus	7700	MPa	ASTM D 638
Tensile Strength at Yield	130	MPa	ASTM D 638
Tensile Strength at Break	130	MPa	ASTM D 638
Elongation at Break	3.4	%	ASTM D 638
Flexural Modulus	9600	MPa	ASTM D 790
Flexural Strength	200	MPa	ASTM D 790
Rockwell Hardness	R 120	-	ASTM D 785
Izod Impact notched, 1/8 in	74	J/m	ASTM D 256
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	207	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	222	°C	ISO 75-1/-2
Vicat softening temperature, B	210	°C	ISO 306
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.75	mm	-
DTUL @ 66 psi	223	°C	ASTM D 648
DTUL @ 264 psi	210	°C	ASTM D 648
Other properties			
Value			
Density	1640	kg/m ³	ISO 1183
Density	1620	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
Value			
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	250	°C	-
Screw speed	50 - 150	rpm	-
Injection pressure	49 - 250	MPa	-
Back pressure	0.5 - 2	MPa	-

Characteristics**Processing**

Injection Molding

Applications

Electrical and Electronical

Delivery form

Pellets, Natural Color

Regional Availability

North America, Europe, Asia Pacific