INFINO VB-5300G

PBT-GF | Lotte Chemical Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**15**	g/10min	ISO 1133
Temperature	**250**	°C	-
Load	**2.16**	kg	-
Molding shrinkage, parallel	**0.6**	%	ISO 294-4, 2577
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	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**7600**	MPa	ISO 527
Yield stress	**150**	MPa	ISO 527
Stress at break	**150**	MPa	ISO 527
Strain at break	**4**	%	ISO 527
Flexural modulus, 23°C	**8800**	MPa	ISO 178
Flexural strength	**210**	MPa	ISO 178
Charpy notched impact strength, +23°C	**10**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**10**	kJ/m²	ISO 180/1A
Rockwell hardness	**R 119**	-	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**	%	ASTM D 638
Flexural Modulus	**8800**	MPa	ASTM D 790
Flexural Strength	**190**	MPa	ASTM D 790
Rockwell Hardness	**R 120**	-	ASTM D 785
Izod Impact notched, 1/4 in	**69**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**206**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**221**	°C	ISO 75-1/-2
Vicat softening temperature, B	**210**	°C	ISO 306
ASTM Data			
DTUL @ 66 psi	**222**	°C	ASTM D 648
DTUL @ 264 psi	**210**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	**1630**	kg/m³	ISO 1183
Density	**1630**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
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	-
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