

Infino VB-5300GS

Polybutylene Terephthalate

SAMSUNG SDI CO., LTD.

Message:

Infino VB-5300GS is a Polybutylene Terephthalate (PBT) product filled with glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: flame rated.

General Information			
Filler / Reinforcement	Glass Fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.62	g/cm ³	ASTM D792
--	1.64	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
250°C/2.16 kg	15	g/10 min	ASTM D1238
250°C/2.16 kg	13	g/10 min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.30 to 0.90	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.060	%	ASTM D570
Ash Content	30	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	120		ASTM D785
R-Scale	117		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	7700	MPa	ASTM D638
--	8000	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	130	MPa	ASTM D638
Yield	147	MPa	ISO 527-2/50
Break ³	130	MPa	ASTM D638
Break	150	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	3.4	%	ASTM D638
Break	3.6	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	9600	MPa	ASTM D790
-- ⁶	9000	MPa	ISO 178
Flexural Strength			
-- ⁷	200	MPa	ASTM D790

-- ⁸	200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	8.7	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	74	J/m	ASTM D256
23°C, 6.35 mm	58	J/m	ASTM D256
23°C ¹⁰	8.3	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	223	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	222	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	210	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	207	°C	ISO 75-2/A
Vicat Softening Temperature			
--	210	°C	ISO 306/B50
--	212	°C	ISO 306/B120
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.750 mm	V-0		
1.70 mm	V-0		
3.00 mm	V-0		
Injection	Nominal Value	Unit	
Drying Temperature			
--	100	°C	
Desiccant Dryer	100	°C	
Drying Time			
--	4.0 to 6.0	hr	
Desiccant Dryer	2.0 to 4.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	210 to 220	°C	
Middle Temperature	225 to 230	°C	
Front Temperature	240 to 250	°C	
Nozzle Temperature	250	°C	
Mold Temperature	60.0 to 120	°C	
Injection Pressure	49.0 to 245	MPa	
Back Pressure	0.490 to 1.96	MPa	
Screw Speed	50 to 150	rpm	
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	5.0 mm/min		

5.	2.8 mm/min
6.	2.0 mm/min
7.	2.8 mm/min
8.	2.0 mm/min
9.	Thickness: 4 mm
10.	Thickness: 4 mm

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