

Infino VB-5400G

Polybutylene Terephthalate

SAMSUNG SDI CO., LTD.

Message:

Infino VB-5400G 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			
UL YellowCard	E115797-219686	E115797-522220	
Filler / Reinforcement	Glass Fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.74	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	8.0	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955
Flow : 3.20 mm	0.35 to 0.42	%	
Across Flow : 3.20 mm	0.54 to 0.66	%	
Water Absorption (23°C, 24 hr)	0.060	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	12000	MPa	ASTM D638
--	13000	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	130	MPa	ASTM D638
Yield	165	MPa	ISO 527-2/50
Break ³	150	MPa	ASTM D638
Break	165	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	3.0	%	ASTM D638
Break	2.8	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	11000	MPa	ASTM D790
-- ⁶	14000	MPa	ISO 178
Flexural Strength			
-- ⁷	220	MPa	ASTM D790
-- ⁸	229	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	11	kJ/m²	ISO 179/1eA
Notched Izod Impact			

23°C, 3.18 mm	88	J/m	ASTM D256
23°C, 6.35 mm	77	J/m	ASTM D256
23°C ¹⁰	10	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	220	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	219	°C	ISO 75-2/B
0.45 MPa, Annealed	219	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	200	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	201	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	202	°C	ISO 75-2/A
Vicat Softening Temperature	204	°C	ISO 306/B50
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.800 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		

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