

Infino VB-3100G

Acrylonitrile Butadiene Styrene + PBT

SAMSUNG SDI CO., LTD.

Message:

Infino VB-3100G is an Acrylonitrile Butadiene Styrene + PBT (ABS+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	E115797-538440		
Filler / Reinforcement	Glass Fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	30	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.60 to 1.2	%	ASTM D955, ISO 2577
Water Absorption			
23°C, 24 hr	0.080	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.080	%	ISO 62
Ash Content	12	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	113		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	74.0	MPa	ASTM D638
Yield	70.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ²	4.0	%	ASTM D638
Break	4.0	%	ISO 527-2/50
Flexural Modulus			
-- ³	3900	MPa	ASTM D790
-- ⁴	3500	MPa	ISO 178
Flexural Strength			
-- ⁵	98.0	MPa	ASTM D790
-- ⁶	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, 3.18 mm	49	J/m	ASTM D256
23°C ⁷	4.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.40 mm	135	°C	ASTM D648

1.8 MPa, Unannealed, 4.00 mm	125	°C	ISO 75-2/A
Vicat Softening Temperature			
--	147	°C	ISO 306/B50
--	151	°C	ISO 306/B120
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 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.	2.8 mm/min		
4.	22 mm/min		
5.	2.8 mm/min		
6.	2.0 mm/min		
7.	Thickness: 4 mm		

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