Infino GP-5300G

Polybutylene Terephthalate

SAMSUNG SDI CO., LTD.

Message:

Infino GP-5300G 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	E115797-219678	E115797-219682	
Filler / Reinforcement	Glass Fiber		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.53	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
250°C/2.16 kg	20	g/10 min	ASTM D1238
250°C/2.16 kg	22	g/10 min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.30 to 0.90	%	ASTM D955
Water Absorption (23°C, 24 hr)	6.0E-3	%	ASTM D570
Ash Content	30	%	ISO 3451
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			
R-Scale	115		ASTM D785
R-Scale	118		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	6800	MPa	ASTM D638
--	7500	MPa	ISO 527-2/50
Tensile Strength			
Yield [2]	120	MPa	ASTM D638
Yield	141	MPa	ISO 527-2/50
Break [3]	130	MPa	ASTM D638
Break	141	MPa	ISO 527-2/50
Tensile Elongation			
Break [4]	3.0	%	ASTM D638
Break	4.0	%	ISO 527-2/50
Flexural Modulus			
-- [5]	8000	MPa	ASTM D790
-- [6]	7900	MPa	ISO 178
Flexural Strength			
-- [7]	190	MPa	ASTM D790
-- [8]	199	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	85	J/m	ASTM D256
23°C, 6.35 mm	79	J/m	ASTM D256
23°C [10]	11	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	225	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	223	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	210	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	206	°C	ISO 75-2/A
Vicat Softening Temperature			
--	216	°C	ISO 306/B50
--	220	°C	ISO 306/B120
Flammability	**Nominal Value**		**Test Method**
Flame Rating			UL 94
0.750 mm	HB		
1.70 mm	HB		
3.00 mm	HB		
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	24.5 to 49.0	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

Recommended distributors for this material

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