

Infino VB-5302GR

Polybutylene Terephthalate

SAMSUNG SDI CO., LTD.

Message:

Infino VB-5302GR 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	E115797-219692		
Filler / Reinforcement	Glass Fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.65	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	16	g/10 min	ASTM D1238, ISO 1133
Ash Content			
--	41	%	ISO 3451
--	31	%	ASTM D5630
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	8200	MPa	ASTM D638
--	9000	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	130	MPa	ASTM D638
Yield	143	MPa	ISO 527-2/50
Break ³	130	MPa	ASTM D638
Break	15.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	3.4	%	ASTM D638
Break	3.4	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	11000	MPa	ASTM D790
-- ⁶	9800	MPa	ISO 178
Flexural Strength			
-- ⁷	210	MPa	ASTM D790
-- ⁸	202	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	9.5	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	79	J/m	ASTM D256

23°C, 6.35 mm	70	J/m	ASTM D256
23°C ¹⁰	9.4	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	222	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	220	°C	ISO 75-2/B
0.45 MPa, Annealed	221	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	211	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	205	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	206	°C	ISO 75-2/A
Vicat Softening Temperature			
--	212	°C	ISO 306/B50
--	215	°C	ISO 306/B120
Flammability	Nominal Value		Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature			
--	101	°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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

