

Infino GP-5000

Polybutylene Terephthalate

SAMSUNG SDI CO., LTD.

Message:

General PBT material that can be used for connector

General Information			
UL YellowCard	E115797-219679		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.31	g/cm ³	ASTM D792
--	1.30	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
250°C/2.16 kg	74	g/10 min	ASTM D1238
250°C/2.16 kg	71	g/10 min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	1.2 to 2.1	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	115		ASTM D785
R-Scale	117		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2200	MPa	ASTM D638
--	2300	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	54.0	MPa	ASTM D638
Yield	55.0	MPa	ISO 527-2/50
Break ³	46.0	MPa	ASTM D638
Break	47.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	4.0	%	ASTM D638
Break	15	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2300	MPa	ASTM D790
-- ⁶	2100	MPa	ISO 178
Flexural Strength			
-- ⁷	83.0	MPa	ASTM D790
-- ⁸	74.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	4.9	kJ/m ²	ISO 179/1eA

Notched Izod Impact			
23°C, 3.18 mm	28	J/m	ASTM D256
23°C, 6.35 mm	27	J/m	ASTM D256
23°C ¹⁰	4.5	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	170	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	124	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	75.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	59.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	194	°C	ISO 306/B50
--	185	°C	ISO 306/B120
Electrical	Nominal Value	Unit	Test Method
Dielectric Constant (10 MHz)	3.10		ASTM D150
Dissipation Factor (10 MHz)	0.020		ASTM D150
Arc Resistance	140	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.700 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature			
--	100	°C	
Desiccant Dryer	100	°C	
Drying Time			
--	2.0 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	260	°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.	50 mm/min		
2.	50 mm/min		
3.	50 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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

