

Infino GP-5150GT

Polybutylene Terephthalate

SAMSUNG SDI CO., LTD.

Message:

Material that has the characteristic of high shape and low warpage with 15% GF reinforcement and can be applied to the switches for microwave or oven

General Information			
UL YellowCard	E115797-219678	E115797-219680	
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Features	Low Warpage		
Uses	Electrical/Electronic Applications		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.41	g/cm³	ASTM D792
--	1.42	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			
250°C/2.16 kg	25	g/10 min	ASTM D1238
250°C/2.16 kg	38	g/10 min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.40 to 1.1	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.070	%	ASTM D570
Ash Content	15	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4400	MPa	ASTM D638
--	4700	MPa	ISO 527-2/5
Tensile Strength			
Yield ²	98.0	MPa	ASTM D638
Yield	101	MPa	ISO 527-2/50
Break ³	91.0	MPa	ASTM D638
Break	101	MPa	ISO 527-2/5
Tensile Elongation			
Break ⁴	4.0	%	ASTM D638
Break	3.4	%	ISO 527-2/5
Flexural Modulus			
-- ⁵	4900	MPa	ASTM D790
-- ⁶	5900	MPa	ISO 178
Flexural Strength			
-- ⁷	150	MPa	ASTM D790

-- ⁸	172	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	5.3	kJ/m ²	ISO 179/1eA
Notched Izod Impact			ASTM D256
23°C, 3.18 mm	49	J/m	
23°C, 6.35 mm	35	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	217	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	211	°C	ISO 75-2/B
0.45 MPa, Annealed	211	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	185	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	174	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	174	°C	ISO 75-2/A
Vicat Softening Temperature			
--	200	°C	ISO 306/B50
--	203	°C	ISO 306/B120
Flammability	Nominal Value		Test Method
Flame Rating (0.700 mm)	HB		UL 94
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.	50 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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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

