

Infino GP-5400G

Polybutylene Terephthalate

SAMSUNG SDI CO., LTD.

Message:

Material with 40% GF reinforcement that is applied to motor insulator

General Information			
UL YellowCard	E115797-219678	E115797-642937	
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.61	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	10	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955
Flow : 3.20 mm	0.40 to 0.48	%	
Across Flow : 3.20 mm	0.54 to 0.65	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	8800	MPa	ASTM D638
--	9000	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	140	MPa	ASTM D638
Yield	160	MPa	ISO 527-2/50
Break ³	140	MPa	ASTM D638
Break	160	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	3.0	%	ASTM D638
Break	3.9	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	11000	MPa	ASTM D790
-- ⁶	10000	MPa	ISO 178
Flexural Strength			
-- ⁷	210	MPa	ASTM D790
-- ⁸	220	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	11	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	93	J/m	ASTM D256

23°C, 6.35 mm	88	J/m	ASTM D256
23°C ¹⁰	12	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	224	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	222	°C	ISO 75-2/B
0.45 MPa, Annealed	222	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	210	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	207	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	207	°C	ISO 75-2/A
Vicat Softening Temperature	211	°C	ISO 306/B50
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	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		

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