

Infino GP-8300G

Polyphenylene Ether

SAMSUNG SDI CO., LTD.

Message:

Infino GP-8300G is a Polyphenylene Ether (PPE) product filled with glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

General Information			
Filler / Reinforcement	Glass Fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (280°C/10.0 kg)	6.0	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	0.36 to 0.44	%	
Across Flow : 3.20 mm	0.40 to 0.49	%	
Ash Content	30	%	ASTM D5630
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	119		ASTM D785
R-Scale	120		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	5200	MPa	ASTM D638
--	5300	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	120	MPa	ASTM D638
Yield	118	MPa	ISO 527-2/50
Break ³	120	MPa	ASTM D638
Break	120	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	3.0	%	ASTM D638
Break	4.0	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	7300	MPa	ASTM D790
-- ⁶	5800	MPa	ISO 178
Flexural Strength			
-- ⁷	160	MPa	ASTM D790
-- ⁸	170	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	12	kJ/m ²	ISO 179/1eA

Notched Izod Impact			
23°C, 3.18 mm	110	J/m	ASTM D256
23°C, 6.35 mm	120	J/m	ASTM D256
23°C ¹⁰	13	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	155	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	155	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	148	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	149	°C	ISO 75-2/A
Vicat Softening Temperature	158	°C	ISO 306/B50
Injection	Nominal Value	Unit	
Drying Temperature			
--	100	°C	
Desiccant Dryer	100	°C	
Drying Time			
--	2.0 to 4.0	hr	
Desiccant Dryer	2.0 to 4.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	270 to 280	°C	
Middle Temperature	290 to 300	°C	
Front Temperature	310	°C	
Nozzle Temperature	310	°C	
Mold Temperature	50.0 to 100	°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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