

Infino GP-8200G

Polyphenylene Ether

SAMSUNG SDI CO., LTD.

Message:

Material with the characteristic of dimensional stability and 20% GF that can be applied to pump and impeller housing

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Dimensional Stability		
Uses	Pump Parts		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (280°C/10.0 kg)	7.0	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	0.38 to 0.46	%	
Across Flow : 3.20 mm	0.42 to 0.52	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	118		ASTM D785
R-Scale	121		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4900	MPa	ASTM D638
--	5500	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	100	MPa	ASTM D638
Yield	120	MPa	ISO 527-2/50
Break ³	110	MPa	ASTM D638
Break	120	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	4.0	%	ASTM D638
Break	3.0	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	5900	MPa	ASTM D790
-- ⁶	5900	MPa	ISO 178
Flexural Strength			
-- ⁷	150	MPa	ASTM D790
-- ⁸	170	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength ⁹ (23°C)	13	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	120	J/m	ASTM D256
23°C, 6.35 mm	110	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	153	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	155	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	140	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	149	°C	ISO 75-2/A
Vicat Softening Temperature	157	°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	260 to 270	°C	
Middle Temperature	280 to 290	°C	
Front Temperature	300 to 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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