

Infino XP-2150IM

Polyphenylene Sulfide

SAMSUNG SDI CO., LTD.

Message:

PPS/GS material with 50% GF reinforcement that is applied to mobile phone LCD bracket

General Information			
UL YellowCard	E115797-305633		
Filler / Reinforcement	Glass Fiber		
Uses	Cell Phones		
	Electrical Housing		
	Electrical/Electronic Applications		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.68	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (315°C/5.0 kg)	40	g/10 min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.25 to 1.0	%	ASTM D955, ISO 2577
Water Absorption			
23°C, 24 hr	0.020	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.020	%	ISO 62

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	160	MPa	ASTM D638
Yield	180	MPa	ISO 527-2/50
Tensile Elongation			
Break ²	6.4	%	ASTM D638
Break	2.2	%	ISO 527-2/50
Flexural Modulus			
-- ³	15000	MPa	ASTM D790
-- ⁴	15000	MPa	ISO 178
Flexural Strength			
-- ⁵	250	MPa	ASTM D790
-- ⁶	250	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, 3.18 mm	98	J/m	ASTM D256
23°C ⁷	10	kJ/m ²	ISO 180/1A

Thermal	Nominal Value	Unit	Test Method
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Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.40 mm	260	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	270	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity ⁸ (23°C)	1.0E+17	ohms·cm	ASTM D257
Dielectric Constant (10 MHz)	5.00		ASTM D150
Dissipation Factor (10 MHz)	5.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature			
--	120	°C	
Desiccant Dryer	120	°C	
Drying Time			
--	4.0 to 6.0	hr	
Desiccant Dryer	2.0 to 4.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	280 to 290	°C	
Middle Temperature	290 to 300	°C	
Front Temperature	310 to 320	°C	
Nozzle Temperature	320	°C	
Mold Temperature	120 to 150	°C	
Injection Pressure	49.0 to 127	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.	2.8 mm/min		
4.	2.0 mm/min		
5.	2.8 mm/min		
6.	2.0 mm/min		
7.	Thickness: 4 mm		
8.	50% RH		

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