

Infino XP-2130A

Polyphenylene Sulfide

SAMSUNG SDI CO., LTD.

Message:

Infino XP-2130A is a Polyphenylene Sulfide (PPS) product filled with glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: flame rated.

General Information			
UL YellowCard	E115797-266927		
Filler / Reinforcement	Glass Fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.65	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (316°C/5.0 kg)	120	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	0.30 to 1.2	%	
Across Flow : 3.20 mm	0.30 to 1.2	%	
Water Absorption			
23°C, 24 hr	0.020	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.020	%	ISO 62
Ash Content			
--	30	%	ASTM D5630
--	30	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	120		ASTM D785
R-Scale	116		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	5900	MPa	ASTM D638
5.00 mm	8000	MPa	ISO 527-2
Tensile Strength			
Yield ²	140	MPa	ASTM D638
Yield	128	MPa	ISO 527-2/5
Break ³	130	MPa	ASTM D638
Break, 5.00 mm	115	MPa	ISO 527-2
Tensile Elongation			
Break ⁴	3.0	%	ASTM D638
Break	3.0	%	ISO 527-2/5
Flexural Modulus ⁵			
--	9800	MPa	ASTM D790

--	10000	MPa	ISO 178
Flexural Strength ⁶			
--	200	MPa	ASTM D790
--	190	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁷ (23°C)	11	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
	88		
23°C, 3.18 mm	79	J/m	ASTM D256
23°C ⁸	11	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	282	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	289	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	275	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	275	°C	ISO 75-2/A
Flammability	Nominal Value		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.	5.0 mm/min		
4.	5.0 mm/min		
5.	2.8 mm/min		

6.	2.8 mm/min
7.	Thickness: 4 mm
8.	Thickness: 4 mm

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