

Infino XP-2165M

Polyphenylene Sulfide
SAMSUNG SDI CO., LTD.

Message:

Infino XP-2165M is a Polyphenylene Sulfide (PPS) product filled with glass\mineral. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: flame rated.

General Information			
UL YellowCard	E115797-219746	E115797-512389	
Filler / Reinforcement	Glass\Mineral		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.96	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (330°C/5.0 kg)	65	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.25 to 0.80	%	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 Modulus ¹	14000	MPa	ASTM D638
Tensile Strength			
Yield ²	120	MPa	ASTM D638
Yield	120	MPa	ISO 527-2/50
Break ³	140	MPa	ASTM D638
Tensile Elongation ⁴ (Break)	1.5	%	ASTM D638
Flexural Modulus			
-- ⁵	18000	MPa	ASTM D790
-- ⁶	18000	MPa	ISO 178
Flexural Strength			
-- ⁷	200	MPa	ASTM D790
-- ⁸	200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	8.6	kJ/m²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	59	J/m	ASTM D256
23°C, 6.35 mm	47	J/m	ASTM D256
23°C ¹⁰	8.1	kJ/m²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			

0.45 MPa, Unannealed, 6.40 mm	285	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	279	°C	ISO 75-2/B
0.45 MPa, Annealed	278	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	270	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	258	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	260	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity ¹¹ (23°C)	1.0E+17	ohms · cm	ASTM D257
Dielectric Constant (10 MHz)	5.00		ASTM D150
Dissipation Factor (10 MHz)	7.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
	V-0		
Flame Rating (1.60 mm)	5VA		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.	2.0 mm/min		
7.	2.8 mm/min		
8.	2.0 mm/min		
9.	Thickness: 4 mm		
10.	Thickness: 4 mm		

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