

Infino XP-2165MC

Polyphenylene Sulfide
SAMSUNG SDI CO., LTD.

Message:

Infino XP-2165MC 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		
Filler / Reinforcement	Glass\Mineral		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.96	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (315°C/5.0 kg)	80	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, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	15000	MPa	ASTM D638
--	10700	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	150	MPa	ASTM D638
Yield	150	MPa	ISO 527-2/50
Break ³	160	MPa	ASTM D638
Break	188	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	1.5	%	ASTM D638
Break	3.2	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	18000	MPa	ASTM D790
-- ⁶	18000	MPa	ISO 178
Flexural Strength			
-- ⁷	200	MPa	ASTM D790
-- ⁸	240	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, 3.18 mm	59	J/m	ASTM D256

23°C, 6.35 mm	53	J/m	ASTM D256
23°C ⁹	5.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	284	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	285	°C	ISO 75-2/B
0.45 MPa, Annealed	283	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	270	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	272	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	274	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity ¹⁰ (23°C)	1.0E+16	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	330	°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.	50% RH

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

