

Infino XP-2165BM

Polyphenylene Sulfide
SAMSUNG SDI CO., LTD.

Message:

Infino XP-2165BM 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: rohs compliant.

General Information			
UL YellowCard	E115797-219746		
Filler / Reinforcement	Glass\Mineral		
RoHS Compliance	RoHS Compliant		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.86	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (316°C/5.0 kg)	28	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.20 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
Ash Content	41	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	167		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	110	MPa	ASTM D638
Yield	138	MPa	ISO 527-2/5
Tensile Elongation			
Break ²	1.5	%	ASTM D638
Break	2.0	%	ISO 527-2/5
Flexural Modulus			
-- ³	18000	MPa	ASTM D790
-- ⁴	16500	MPa	ISO 178
Flexural Strength			
-- ⁵	180	MPa	ASTM D790
-- ⁶	197	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁷ (23°C)	6.1	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	39	J/m	ASTM D256
23°C ⁸	7.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	270	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity ⁹ (23°C)	1.0E+16	ohms·cm	ASTM D257, IEC 60093
Dielectric Constant (10 MHz)	5.00		ASTM D150, IEC 60250
Dissipation Factor (10 MHz)	7.0E-3		ASTM D150, IEC 60250
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.	Thickness: 4 mm		
9.	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



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