

Infino XK-2307

Polyphenylene Sulfide

SAMSUNG SDI CO., LTD.

Message:

Infino XK-2307 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	E115797-100750665		
Filler / Reinforcement	Glass Fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.70	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (330°C/5.0 kg)	15	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	0.10	%	
Across Flow : 3.20 mm	0.30	%	
Water Absorption			
Equilibrium, 23°C	0.10	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.10	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	83.0	MPa	ASTM D638
Yield	84.0	MPa	ISO 527-2/5
Flexural Modulus ²	18000	MPa	ASTM D790, ISO 178
Flexural Strength ³			
--	120	MPa	ASTM D790
--	220	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁴ (23°C)	3.9	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	44	J/m	ASTM D256
23°C ⁵	4.0	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
1.8 MPa, Unannealed, 4.00 mm	> 270	°C	ISO 75-2/A
Flammability	Nominal Value		Test Method
Flame Rating			UL 94

1.50 mm	V-1	
2.00 to 3.00 mm	V-0	
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.	2.8 mm/min	
3.	2.8 mm/min	
4.	Thickness: 4 mm	
5.	Thickness: 4 mm	

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