

Infino XP-4240

Polyphenylene Sulfide + PPA

SAMSUNG SDI CO., LTD.

Message:

Infino XP-4240 is a Polyphenylene Sulfide + PPA (PPS+PPA) 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	E115797-100086396		
Filler / Reinforcement	Glass Fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.55	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (330°C/5.0 kg)	60	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	0.25 to 0.30	%	
Across Flow : 3.20 mm	0.34 to 0.41	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	9800	MPa	ASTM D638
--	15500	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	130	MPa	ASTM D638
Yield	164	MPa	ISO 527-2/50
Break ³	150	MPa	ASTM D638
Break	164	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	2.7	%	ASTM D638
Break	2.0	%	ISO 527-2/50
Flexural Modulus ⁵			
--	12000	MPa	ASTM D790
--	18900	MPa	ISO 178
Flexural Strength ⁶			
--	160	MPa	ASTM D790
--	230	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁷ (23°C)	7.2	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	71	J/m	ASTM D256

23°C, 6.35 mm	57	J/m	ASTM D256
23°C ⁸	7.6	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	281	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	285	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	270	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	277	°C	ISO 75-2/A
Flammability	Nominal Value		Test Method
Flame Rating (0.800 to 3.00 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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