

Infino XP-2140C

Polyphenylene Sulfide

SAMSUNG SDI CO., LTD.

Message:

PPS/GF with 40% GF reinforcement that is applied to automobile parts etc.

General Information			
UL YellowCard	E115797-219745		
Filler / Reinforcement	Glass Fiber		
Uses	Automotive Applications		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.66	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
316°C/5.0 kg	55	g/10 min	ASTM D1238
316°C/5.0 kg	83	g/10 min	ISO 1133
Molding Shrinkage			ASTM D955
Flow : 3.20 mm	0.27 to 0.33	%	
Across Flow : 3.20 mm	0.32 to 0.39	%	
Ash Content	40	%	ASTM D5630
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	6900	MPa	ASTM D638
--	11400	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	190	MPa	ASTM D638
Yield	180	MPa	ISO 527-2/50
Break ³	180	MPa	ASTM D638
Break	180	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	3.0	%	ASTM D638
Break	2.7	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	13000	MPa	ASTM D790
-- ⁶	13400	MPa	ISO 178
Flexural Strength			
-- ⁷	260	MPa	ASTM D790
-- ⁸	260	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength ⁹ (23°C)	13	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	98	J/m	ASTM D256
23°C, 6.35 mm	85	J/m	ASTM D256
23°C ¹⁰	11	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	282	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	283	°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	267	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	272	°C	ISO 75-2/A
Flammability	Nominal Value	Test Method	
Flame Rating (0.750 mm)	V-0	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature			
--	120	°C	
Desiccant Dryer	120	°C	
Drying Time			
--	4.0	hr	
Desiccant Dryer	6.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	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	0.981 to 1.96	MPa	
Screw Speed	30 to 70	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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