

Infino WP-1041G

Polycarbonate + ABS

SAMSUNG SDI CO., LTD.

Message:

Infino WP-1041G is a Polycarbonate + ABS (PC+ABS) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.
Typical application: Automotive.

General Information			
UL YellowCard	E115797-100388949		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238, ISO 1133
250°C/10.0 kg	31	g/10 min	
250°C/2.16 kg	3.0	g/10 min	
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	0.50 to 0.60	%	
Across Flow : 3.20 mm	0.50 to 0.60	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	105		ASTM D785
R-Scale	107		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1900	MPa	ASTM D638
--	1900	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	49.0	MPa	ASTM D638
Yield	47.0	MPa	ISO 527-2/50
Break ³	39.0	MPa	ASTM D638
Break	41.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	100	%	ASTM D638
Break	73	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	1900	MPa	ASTM D790
-- ⁶	2000	MPa	ISO 178
Flexural Strength			
-- ⁷	66.0	MPa	ASTM D790
-- ⁸	70.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength ⁹ (23°C)	47	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
-30°C, 3.18 mm	390	J/m	ASTM D256
-30°C, 6.35 mm	250	J/m	ASTM D256
23°C, 3.18 mm	540	J/m	ASTM D256
23°C, 6.35 mm	410	J/m	ASTM D256
-30°C ¹⁰	35	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	120	°C	ASTM D648
0.45 MPa, Annealed	116	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	100	°C	ASTM D648
1.8 MPa, Annealed, 4.00 mm	101	°C	ISO 75-2/A
Vicat Softening Temperature			
--	111	°C	ISO 306/B50
--	114	°C	ISO 306/B120
CLTE - Flow (40 to 100°C)	8.5E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature			
--	80.0	°C	
Desiccant Dryer	80.0	°C	
Drying Time			
--	4.0 to 6.0	hr	
Desiccant Dryer	2.0 to 4.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	220 to 230	°C	
Middle Temperature	240 to 250	°C	
Front Temperature	260 to 270	°C	
Nozzle Temperature	270	°C	
Mold Temperature	50.0 to 70.0	°C	
Injection Pressure	78.5	MPa	
Back Pressure	0.490 to 1.96	MPa	
Screw Speed	50 to 150	rpm	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	50 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
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10.	Thickness: 4 mm
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