

Infino GC-1017

Polycarbonate + ABS

SAMSUNG SDI CO., LTD.

Message:

Infino GC-1017 is a Polycarbonate + ABS (PC+ABS) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.
Primary characteristic: flame rated.

General Information			
UL YellowCard	E115797-100062901		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	46	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2400	MPa	ASTM D638
--	2400	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	57.0	MPa	ASTM D638
Yield	59.0	MPa	ISO 527-2/50
Break ³	43.0	MPa	ASTM D638
Break	46.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	23	%	ASTM D638
Break	7.8	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2500	MPa	ASTM D790
-- ⁶	2690	MPa	ISO 178
Flexural Strength			
-- ⁷	87.0	MPa	ASTM D790
-- ⁸	86.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	15	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	440	J/m	ASTM D256
23°C ¹⁰	17	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			

0.45 MPa, Unannealed, 6.40 mm	91.0	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	86.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	83.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	77.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	93.0	°C	ISO 306/B50
--	97.0	°C	ISO 306/B120
RTI Elec (2.00 mm)	85.0	°C	UL 746
RTI Imp (2.00 mm)	85.0	°C	UL 746
RTI Str (2.00 mm)	85.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
	V-0		
2.00 mm	5VB		
	V-0		
3.00 mm	5VB		
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	230	°C	
Middle Temperature	240 to 250	°C	
Front Temperature	250 to 260	°C	
Nozzle Temperature	260	°C	
Mold Temperature	50.0 to 80.0	°C	
Injection Pressure	93.2	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
10.	Thickness: 4 mm

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