

Infino UF-1013

Polycarbonate
SAMSUNG SDI CO., LTD.

Message:

Infino UF-1013 is a Polycarbonate (PC) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: flame rated.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
220°C/10.0 kg	18	g/10 min	ASTM D1238
250°C/10.0 kg	18	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	119		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2200	MPa	ASTM D638
--	2200	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	64.0	MPa	ASTM D638
Yield	60.0	MPa	ISO 527-2/50
Break ³	57.0	MPa	ASTM D638
Break	55.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	83	%	ASTM D638
Break	87	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2300	MPa	ASTM D790
-- ⁶	2300	MPa	ISO 178
Flexural Strength			
-- ⁷	89.0	MPa	ASTM D790
-- ⁸	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	30	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	790	J/m	ASTM D256
23°C, 6.35 mm	620	J/m	ASTM D256
23°C ¹⁰	80	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	103	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	100	°C	ISO 75-2/B
0.45 MPa, Annealed	100	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	95.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	89.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	94.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	108	°C	ISO 306/B50
--	110	°C	ISO 306/B120
Flammability	Nominal Value		Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature			
--	80.0	°C	
Desiccant Dryer	80.0	°C	
Drying Time			
--	2.0 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	280	°C	
Mold Temperature	40.0 to 120	°C	
Injection Pressure	49.0 to 245	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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