

Infino CF-1030

Polycarbonate
SAMSUNG SDI CO., LTD.

Message:

Infino CF-1030 is a Polycarbonate (PC) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

General Information			
UL YellowCard	E115797-509390		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	28	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.70	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	116		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	56.0	MPa	ASTM D638
Yield	54.0	MPa	ISO 527-2/50
Tensile Strain (Break)	73	%	ISO 527-2/50
Flexural Modulus			
-- ²	2200	MPa	ASTM D790
-- ³	2380	MPa	ISO 178
Flexural Strength			
-- ⁴	78.0	MPa	ASTM D790
-- ⁵	89.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁶ (23°C)	80	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	780	J/m	ASTM D256
23°C, 6.35 mm	590	J/m	ASTM D256
23°C ⁷	70	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	137	°C	ISO 306/B50
Injection	Nominal Value	Unit	
Drying Temperature			
--	100	°C	
Desiccant Dryer	100	°C	
Drying Time			
--	4.0 to 6.0	hr	

Desiccant Dryer	2.0 to 4.0	hr
Suggested Max Moisture	< 0.10	%
Rear Temperature	250 to 260	°C
Middle Temperature	270 to 280	°C
Front Temperature	280 to 290	°C
Nozzle Temperature	300	°C
Mold Temperature	80.0 to 100	°C
Injection Pressure	98.1	MPa
Back Pressure	0.981 to 2.94	MPa
Screw Speed	40 to 80	rpm

NOTE

- | | |
|----|-----------------|
| 1. | 50 mm/min |
| 2. | 2.8 mm/min |
| 3. | 2.0 mm/min |
| 4. | 2.8 mm/min |
| 5. | 2.0 mm/min |
| 6. | Thickness: 4 mm |
| 7. | Thickness: 4 mm |

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