

Infino UF-1017B

Polycarbonate
SAMSUNG SDI CO., LTD.

Message:

Infino UF-1017B 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	1.19	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	28	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ISO 527-2/50
Tensile Strength			
Yield ¹	61.0	MPa	ASTM D638
Yield	61.0	MPa	ISO 527-2/50
Break	50.0	MPa	ISO 527-2/50
Tensile Strain (Break)	52	%	ISO 527-2/50
Flexural Modulus			
-- ²	2400	MPa	ASTM D790
-- ³	2500	MPa	ISO 178
Flexural Strength			
-- ⁴	89.0	MPa	ASTM D790
-- ⁵	95.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁶ (23°C)	16	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	590	J/m	ASTM D256
23°C ⁷	14	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 4.00 mm	103	°C	ISO 75-2/B
0.45 MPa, Annealed	107	°C	ISO 75-2/B
1.8 MPa, Unannealed, 4.00 mm	91.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	104	°C	ISO 75-2/A
Vicat Softening Temperature			
--	109	°C	ISO 306/B50
--	111	°C	ISO 306/B120

Flammability	Nominal Value	Test Method
Flame Rating (0.700 to 3.00 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. 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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