

Infino TP-1020

Polycarbonate
SAMSUNG SDI CO., LTD.

Message:

Infino TP-1020 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			
UL YellowCard		E115797-219714	
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.22	g/cm ³	ASTM D792
--	1.19	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
250°C/10.0 kg	30	g/10 min	ASTM D1238
250°C/10.0 kg	28	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	122		ASTM D785
R-Scale	121		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2000	MPa	ASTM D638
--	2000	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	59.0	MPa	ASTM D638
Yield	60.0	MPa	ISO 527-2/50
Break ³	69.0	MPa	ASTM D638
Break	67.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	110	%	ASTM D638
Break	110	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	1900	MPa	ASTM D790
-- ⁶	2000	MPa	ISO 178
Flexural Strength			
-- ⁷	85.0	MPa	ASTM D790
-- ⁸	84.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	16	kJ/m ²	ISO 179/1eA

Notched Izod Impact			
23°C, 3.18 mm	640	J/m	ASTM D256
23°C, 6.35 mm	98	J/m	ASTM D256
23°C ¹⁰	12	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	143	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	139	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	129	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	124	°C	ISO 75-2/A
Vicat Softening Temperature			
--	146	°C	ISO 306/B50
--	151	°C	ISO 306/B120
Flammability	Nominal Value	Test Method	
Flame Rating (0.800 mm)	V-2	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature			
--	120	°C	
Desiccant Dryer	110	°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	290	°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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

