

Infino AE-2130

Polycarbonate + PET
SAMSUNG SDI CO., LTD.

Message:

Infino AE-2130 is a Polycarbonate + PET (PC+PET) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238, ISO 1133
250°C/2.16 kg	2.8	g/10 min	
260°C/5.0 kg	21	g/10 min	
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	0.30 to 0.50	%	
Across Flow : 3.20 mm	0.30 to 0.50	%	
Ash Content			
--	4.0	%	ISO 3451
--	4.0	%	ASTM D5630
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	111		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2300	MPa	ASTM D638
--	2400	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	57.0	MPa	ASTM D638
Yield	56.0	MPa	ISO 527-2/50
Break ³	56.0	MPa	ASTM D638
Break	55.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	90	%	ASTM D638
Break	90	%	ISO 527-2/50
Flexural Modulus ⁵			
--	2500	MPa	ASTM D790
--	2400	MPa	ISO 178
Flexural Strength ⁶			
--	81.0	MPa	ASTM D790
--	82.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁷ (23°C)	33	kJ/m ²	ISO 179/1eA

Notched Izod Impact			
23°C, 3.18 mm	550	J/m	ASTM D256
23°C, 6.35 mm	180	J/m	ASTM D256
23°C ⁸	38	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	128	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	120	°C	ISO 75-2/B
0.45 MPa, Annealed	125	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	108	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	98.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	112	°C	ISO 75-2/A
Vicat Softening Temperature	132	°C	ISO 306/B50
Injection	Nominal Value	Unit	
Drying Temperature			
--	110	°C	
Desiccant Dryer	100	°C	
Drying Time			
--	4.0 to 6.0	hr	
Desiccant Dryer	2.0 to 4.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	230 to 240	°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	98.1	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.	2.8 mm/min		
7.	Thickness: 4 mm		
8.	Thickness: 4 mm		

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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

