

Infino AE-2030

Polycarbonate + PET
SAMSUNG SDI CO., LTD.

Message:
PC/PET material that can be applied to automobile radiator grille and door handle

General Information			
Uses	Automotive Exterior Parts		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	32	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	113		ASTM D785
R-Scale	115		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2000	MPa	ISO 527-2/50
Tensile Strength			
Yield ¹	56.0	MPa	ASTM D638
Yield	54.0	MPa	ISO 527-2/50
Break	54.0	MPa	ISO 527-2/50
Tensile Strain (Break)	110	%	ISO 527-2/50
Flexural Modulus			
-- ²	2100	MPa	ASTM D790
-- ³	2200	MPa	ISO 178
Flexural Strength			
-- ⁴	77.0	MPa	ASTM D790
-- ⁵	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁶ (23°C)	61	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	710	J/m	ASTM D256
23°C ⁷	57	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 4.00 mm	120	°C	ISO 75-2/B
0.45 MPa, Annealed	121	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	107	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	97.0	°C	ISO 75-2/A

1.8 MPa, Annealed, 4.00 mm	103	°C	ISO 75-2/A
Vicat Softening Temperature			
--	130	°C	ISO 306/B50
--	132	°C	ISO 306/B120
Injection	Nominal Value	Unit	
Drying Temperature			
--	110	°C	
Desiccant Dryer	110	°C	
Drying Time			
--	4.0 to 6.0	hr	
Desiccant Dryer	2.0 to 4.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	250	°C	
Middle Temperature	260	°C	
Front Temperature	270	°C	
Nozzle Temperature	270	°C	
Mold Temperature	50.0 to 80.0	°C	
Injection Pressure	58.8	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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