

Infino AR-6508

Polybutylene Terephthalate + PET

SAMSUNG SDI CO., LTD.

Message:

Infino AR-6508 is a Polybutylene Terephthalate + PET (PBT+PET) product filled with glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

General Information			
Filler / Reinforcement	Glass Fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.75	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	9.5	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	205		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	140	MPa	ASTM D638
Yield	140	MPa	ISO 527-2/5
Tensile Elongation			
Break ²	3.0	%	ASTM D638
Break	3.0	%	ISO 527-2/5
Flexural Modulus ³	14000	MPa	ASTM D790, ISO 178
Flexural Strength ⁴			
--	220	MPa	ASTM D790
--	210	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁵ (23°C)	11	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	110	J/m	ASTM D256
23°C, 6.35 mm	88	J/m	ASTM D256
23°C ⁶	11	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed, 4.00 mm)	200	°C	ISO 75-2/A
Injection	Nominal Value	Unit	Test Method
Drying Temperature			
--	100	°C	
Desiccant Dryer	100	°C	
Drying Time			
--	2.0 to 6.0	hr	

Desiccant Dryer	2.0 to 4.0	hr
Suggested Max Moisture	< 0.050	%
Rear Temperature	210 to 220	°C
Middle Temperature	230 to 240	°C
Front Temperature	250 to 260	°C
Nozzle Temperature	260	°C
Mold Temperature	60.0 to 100	°C
Injection Pressure	49.0 to 245	MPa
Back Pressure	0.490 to 1.96	MPa
Screw Speed	50 to 150	rpm

NOTE

- | | |
|----|----------------|
| 1. | 5.0 mm/min |
| 2. | 5.0 mm/min |
| 3. | 2.8 mm/min |
| 4. | 2.8 mm/min |
| 5. | Thickness 4 mm |
| 6. | Thickness 4 mm |

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