

Infino ASF-9810F

Polybutylene Terephthalate + PET

SAMSUNG SDI CO., LTD.

Message:

Material for automobile lamp with high flowability

General Information			
Filler / Reinforcement	Mineral		
Features	High Flow		
Uses	Automotive Applications		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	55	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	1.6	%	
Across Flow : 3.20 mm	1.6	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	116		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2350	MPa	ISO 527-2/50
Tensile Strength			
Yield ¹	59.0	MPa	ASTM D638
Yield	58.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ²	15	%	ASTM D638
Break	15	%	ISO 527-2/50
Flexural Modulus ³			
--	2500	MPa	ASTM D790
--	2320	MPa	ISO 178
Flexural Stress ⁴	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁵ (23°C)	3.7	kJ/m ²	ISO 179/1eA
Notched Izod Impact Strength ⁶ (23°C)	4.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 4.00 mm	130	°C	ISO 75-2/B
1.8 MPa, Unannealed, 4.00 mm	60.0	°C	ISO 75-2/A
Injection	Nominal Value	Unit	Test Method
Drying Temperature			

--	120	°C
Desiccant Dryer	120	°C
Drying Time		
--	> 4.0	hr
Desiccant Dryer	> 4.0	hr
Suggested Max Moisture	< 0.10	%
Rear Temperature	210 to 220	°C
Middle Temperature	230 to 240	°C
Front Temperature	250 to 260	°C
Nozzle Temperature	260	°C
Mold Temperature	30.0 to 60.0	°C
Injection Pressure	88.3	MPa
Back Pressure	0.981 to 1.96	MPa
Screw Speed	30 to 80	rpm

NOTE

1. 50 mm/min
2. 50 mm/min
3. 2.8 mm/min
4. 2.8 mm/min
5. Thickness: 4 mm
6. Thickness: 4 mm

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