Infino AR-5300H

Polybutylene Terephthalate + ASA

SAMSUNG SDI CO., LTD.

Message:

Infino AR-5300H is a Polybutylene Terephthalate + ASA (PBT+ASA) product filled with glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Typical application: Automotive.

General Information			
UL YellowCard	E115797-100393083		
Filler / Reinforcement	Glass Fiber		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.45	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	30	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow : 3.20 mm	0.60	%	ASTM D955
Across Flow : 3.20 mm	0.60	%	ISO 2577
Flow : 3.20 mm	0.30	%	ISO 2577
Ash Content			
--	30	%	ISO 3451
--	30	%	ASTM D5630
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	117		ASTM D785, ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	8300	MPa	ASTM D638
--	7000	MPa	ISO 527-2/50
Tensile Strength			
Yield [2]	130	MPa	ASTM D638
Yield	110	MPa	ISO 527-2/50
Break [3]	130	MPa	ASTM D638
Break	105	MPa	ISO 527-2/50
Tensile Elongation			
Break [4]	5.0	%	ASTM D638
Break	5.0	%	ISO 527-2/50
Flexural Modulus			
-- [5]	8800	MPa	ASTM D790
-- [6]	7800	MPa	ISO 178
Flexural Strength			
-- [7]	190	MPa	ASTM D790
-- [8]	170	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength [9] (23°C)	8.0	kJ/m²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	79	J/m	ASTM D256
23°C, 6.35 mm	88	J/m	ASTM D256
23°C [10]	8.0	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	205	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	195	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	193	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	180	°C	ISO 75-2/A
Vicat Softening Temperature	205	°C	ISO 306/B50
Injection	**Nominal Value**	**Unit**	
Drying Temperature			
--	120	°C	
Desiccant Dryer	120	°C	
Drying Time			
--	4.0	hr	
Desiccant Dryer	4.0	hr	
Suggested Max Moisture	0.040	%	
Rear Temperature	230 to 240	°C	
Middle Temperature	240 to 250	°C	
Front Temperature	250 to 260	°C	
Nozzle Temperature	270	°C	
Mold Temperature	60.0 to 80.0	°C	
Injection Pressure	98.1	MPa	
Back Pressure	2.94 to 7.85	MPa	
Screw Speed	5 to 25	rpm	
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	5.0 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		

infringement occurs, please contact us immediately.

Recommended distributors for this material

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