Infino WP-1200

Polycarbonate + ABS

LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Infino WP-1200 is a polycarbonate acrylonitrile butadiene styrene (PC ABS) product, which contains a glass fiber reinforced material. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: automotive industry.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	General		
Uses	Application in Automobile Field		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity (Natural)	1.27	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	36	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.15 - 0.45	%	ASTM D955
Transverse flow: 3.20mm	0.25 - 0.55	%	ASTM D955
Lateral flow: 3.20mm	0.25 - 0.55	%	ISO 2577
Traffic: 3.20mm	0.15 - 0.45	%	ISO 2577
Ash Content			
--	20	%	ASTM D5630
--	20	%	ISO 3451
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	4200	MPa	ASTM D638
--	4300	MPa	ISO 527-2/5
Tensile Strength			
Yield [2]	120	MPa	ASTM D638
Yield	109	MPa	ISO 527-2/5
Fracture [3]	120	MPa	ASTM D638
Fracture	109	MPa	ISO 527-2/5
Tensile Elongation			
Fracture [4]	3.5	%	ASTM D638
Fracture	3.9	%	ISO 527-2/5
Flexural Modulus			
-- [5]	6100	MPa	ASTM D790
-- [6]	7400	MPa	ISO 178
Flexural Strength			
-- [7]	150	MPa	ASTM D790
-- [8]	180	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength [9]			ISO 179/1eA
-30°C	9.0	kJ/m²	ISO 179/1eA
23°C	11	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength [10]			ISO 179/1eU
-30°C	58	kJ/m²	ISO 179/1eU
23°C	62	kJ/m²	ISO 179/1eU
Notched Izod Impact			
-30°C, 3.18 mm	59	J/m	ASTM D256
-30°C, 6.35 mm	69	J/m	ASTM D256
23°C, 3.18 mm	69	J/m	ASTM D256
23°C, 6.35 mm	79	J/m	ASTM D256
-30°C [11]	7.0	kJ/m²	ISO 180/1A
23°C [12]	8.0	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, unannealed, 6.40mm	138	°C	ASTM D648
0.45 MPa, unannealed, 4.00mm	131	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	128	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	121	°C	ISO 75-2/A
Vicat Softening Temperature	130	°C	ISO 306/B50
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: 40 to 100°C	3.1E-6	cm/cm/°C	ASTM E831, ISO 11359-2
Horizontal: 40 to 100°C	6.4E-6	cm/cm/°C	ASTM E831, ISO 11359-2
Injection	**Nominal Value**	**Unit**	
Drying Temperature			
--	90 - 110	°C	
Hot air dryer	90 - 110	°C	
Drying Time			
--	2.0 - 4.0	hr	
Hot air dryer	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	220 - 240	°C	
Middle Temperature	240 - 250	°C	
Front Temperature	250 - 270	°C	
Nozzle Temperature	250 - 290	°C	
Mold Temperature	60 - 90	°C	
Injection Pressure	98.1	MPa	
Back Pressure	0.490 - 2.94	MPa	
Screw Speed	5 - 200	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: 4mm
10.	Thickness: 4mm
11.	Thickness: 4mm
12.	Thickness: 4mm

Recommended distributors for this material

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