

Infino AE-2150

Polycarbonate + PET

LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Infino AE-2150 is a polycarbonate PET (PC PET) product. 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			
Features	General		
Uses	Application in Automobile Field		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.33	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	34	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.40 - 0.60	%	ASTM D955
Transverse flow: 3.20mm	0.50 - 0.70	%	ASTM D955
Lateral flow: 3.20mm	0.50 - 0.70	%	ISO 2577
Traffic: 3.20mm	0.40 - 0.60	%	ISO 2577
Ash Content			
--	15	%	ASTM D5630
--	15	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	110		ASTM D785
R scale	110		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3500	MPa	ASTM D638
--	3800	MPa	ISO 527-2/5
Tensile Strength			
Yield ²	66.0	MPa	ASTM D638
Yield	63.0	MPa	ISO 527-2/5
Fracture ³	59.0	MPa	ASTM D638
Fracture	58.0	MPa	ISO 527-2/5
Tensile Elongation			
Fracture ⁴	7.0	%	ASTM D638
Fracture	4.0	%	ISO 527-2/5
Flexural Modulus			
-- ⁵	3900	MPa	ASTM D790
-- ⁶	4000	MPa	ISO 178

Flexural Strength			
-- ⁷	86.0	MPa	ASTM D790
-- ⁸	100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	6.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ¹⁰ (23°C)	85	kJ/m ²	ISO 179/1eU
Notched Izod Impact			
-30°C, 3.18 mm	49	J/m	ASTM D256
-30°C, 6.35 mm	49	J/m	ASTM D256
23°C, 3.18 mm	59	J/m	ASTM D256
23°C, 6.35 mm	59	J/m	ASTM D256
-30°C ¹¹	6.0	kJ/m ²	ISO 180/1A
23°C ¹²	7.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 6.40mm	130	°C	ASTM D648
0.45 MPa, unannealed, 4.00mm	129	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	123	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	112	°C	ISO 75-2/A
Vicat Softening Temperature	140	°C	ISO 306/B50
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	4.6E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	6.6E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature			
--	110	°C	
Hot air dryer	110	°C	
Drying Time			
--	4.0 - 6.0	hr	
Hot air dryer	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	240 - 250	°C	
Middle Temperature	240 - 260	°C	
Front Temperature	250 - 270	°C	
Nozzle Temperature	250 - 270	°C	
Mold Temperature	60 - 80	°C	
Injection Pressure	58.8	MPa	
Back Pressure	0.490 - 1.96	MPa	
Screw Speed	50 - 100	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

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