

Infino AE-3060

Polycarbonate + PBT

LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Infino AE-3060 is a polycarbonate polybutene terephthalate (PC PBT) 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			
UL YellowCard	E115797-101425843		
Features	General		
Uses	Application in Automobile Field		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.20	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	7.5	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.40 - 0.60	%	ASTM D955
Transverse flow: 3.20mm	0.40 - 0.60	%	ASTM D955
Lateral flow: 3.20mm	0.40 - 0.60	%	ISO 2577
Traffic: 3.20mm	0.40 - 0.60	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	120		ASTM D785
R scale	120		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2000	MPa	ASTM D638
--	2100	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	63.0	MPa	ASTM D638
Yield	62.0	MPa	ISO 527-2/50
Fracture ³	61.0	MPa	ASTM D638
Fracture	58.0	MPa	ISO 527-2/50
Tensile Elongation			
Fracture ⁴	100	%	ASTM D638
Fracture	100	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2300	MPa	ASTM D790
-- ⁶	2500	MPa	ISO 178
Flexural Strength			
-- ⁷	90.0	MPa	ASTM D790

-- ⁸	94.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	58	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
-30°C, 3.18 mm	150	J/m	ASTM D256
23°C, 3.18 mm	740	J/m	ASTM D256
23°C, 6.35 mm	180	J/m	ASTM D256
23°C ¹⁰	36	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 6.40mm	98.0	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	86.0	°C	ISO 75-2/A
Vicat Softening Temperature	124	°C	ISO 306/B50
Injection	Nominal Value	Unit	
Drying Temperature			
--	110	°C	
Hot air dryer	100	°C	
Drying Time			
--	4.0	hr	
Hot air dryer	4.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	260 - 270	°C	
Middle Temperature	240 - 250	°C	
Front Temperature	230 - 240	°C	
Nozzle Temperature	270	°C	
Mold Temperature	40 - 60	°C	
Injection Pressure	49.0 - 245	MPa	
Back Pressure	0.490 - 1.96	MPa	
Screw Speed	50 - 150	rpm	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	50 mm/min		
5.	10 mm/min		
6.	2.0 mm/min		
7.	10 mm/min		
8.	2.0 mm/min		
9.	Thickness: 4mm		
10.	Thickness: 4mm		

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