

Infino AE-2030

Lotte Chemical Corporation - Polycarbonate + PET

Tuesday, June 27, 2023

General Information

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Automotive Applications		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity (Natural)	1.20	g/cm ³	ASTM D792
Density (Natural)	1.20	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238
250°C/10.0 kg	32	g/10 min	
260°C/5.0 kg	22	g/10 min	
Melt Mass-Flow Rate (MFR)			ISO 1133
250°C/10.0 kg	32	g/10 min	
260°C/5.0 kg	22	g/10 min	
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.80	%	ASTM D955
Molding Shrinkage - Across Flow (3.20 mm)	0.50 to 0.80	%	ASTM D955
Molding Shrinkage			ISO 294-4
Across Flow : 2.00 mm	0.50 to 0.80	%	
Flow : 2.00 mm	0.50 to 0.80	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ²	2000	MPa	ASTM D638
Tensile Modulus	2100	MPa	ISO 527-1/50
Tensile Strength ² (Yield)	55.9	MPa	ASTM D638
Tensile Stress (Yield)	54.0	MPa	ISO 527-2/50
Tensile Strength ² (Break)	54.9	MPa	ASTM D638
Tensile Stress (Break)	52.0	MPa	ISO 527-2/50
Tensile Elongation ² (Break)	100	%	ASTM D638
Tensile Strain (Break)	100	%	ISO 527-2/50
Flexural Modulus ³	2100	MPa	ASTM D790
Flexural Modulus ⁴	2200	MPa	ISO 178
Flexural Strength ³	76.5	MPa	ASTM D790
Flexural Stress ⁴	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁵ (23°C)	65	kJ/m ²	ISO 179/1eA
Notched Izod Impact			ASTM D256
23°C, 3.18 mm	710	J/m	
23°C, 6.35 mm	550	J/m	
Notched Izod Impact Strength ⁵ (23°C)	59	kJ/m ²	ISO 180/1A
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785

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Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	116		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/B
0.45 MPa, Unannealed, 4.00 mm	120	°C	
Deflection Temperature Under Load			ISO 75-2/B
0.45 MPa, Annealed, 4.00 mm	121	°C	
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 6.40 mm	107	°C	
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed, 4.00 mm	97.0	°C	
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	103	°C	
Vicat Softening Temperature			
--	132	°C	ISO 306/B120
--	130	°C	ISO 306/B50
--	131	°C	

Processing Information

Injection	Nominal Value	Unit
Drying Temperature		
Desiccant Dryer	110	°C
Hot Air Dryer	110	°C
Drying Time		
Desiccant Dryer	2.0 to 4.0	hr
Hot Air Dryer	4.0 to 6.0	hr
Suggested Max Moisture	< 0.020	%
Rear Temperature	230 to 240	°C
Middle Temperature	230 to 250	°C
Front Temperature	240 to 260	°C
Nozzle Temperature	240 to 260	°C
Mold Temperature	60 to 80	°C
Injection Pressure	58.8	MPa
Back Pressure	0.490 to 1.96	MPa
Screw Speed	50 to 150	rpm

Injection Notes

Hot Runner Temperature: 260°C

Notes

¹ Typical properties: these are not to be construed as specifications.

² 50 mm/min

³ 2.8 mm/min

⁴ 2.0 mm/min

⁵ 4mm