

Infino LB-1010W

Lotte Chemical Corporation - Polycarbonate

General Information

General			
Uses	• Lighting Applications		
Properties ¹			
Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity (Natural)	1.26		ASTM D792
Density (Natural)	1.26	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	48	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	48	g/10 min	ISO 1133
Molding Shrinkage - Flow (0.126 in)	5.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ²	313000	psi	ASTM D638
Tensile Modulus	305000	psi	ISO 527-1/50
Tensile Strength ² (Yield)	7540	psi	ASTM D638
Tensile Stress (Yield)	7980	psi	ISO 527-2/50
Tensile Strength ² (Break)	8390	psi	ASTM D638
Tensile Stress (Break)	7980	psi	ISO 527-2/50
Tensile Elongation ² (Break)	80	%	ASTM D638
Tensile Strain (Break)	87	%	ISO 527-2/50
Flexural Modulus ³	299000	psi	ASTM D790
Flexural Modulus ⁴	319000	psi	ISO 178
Flexural Strength ³	11100	psi	ASTM D790
Flexural Stress ⁴	11900	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁵ (73°F)	22	ft-lb/in ²	ISO 179/1eA
Notched Izod Impact			ASTM D256
73°F, 0.125 in	9.2	ft-lb/in	
73°F, 0.250 in	6.9	ft-lb/in	
Notched Izod Impact Strength ⁵ (73°F)	20	ft-lb/in ²	ISO 180/1A
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Rockwell Hardness (R-Scale)	116		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/B
66 psi, Unannealed, 0.157 in	270	°F	
Deflection Temperature Under Load			ISO 75-2/B
66 psi, Annealed, 0.157 in	271	°F	
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, 0.252 in	264	°F	
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed, 0.157 in	243	°F	

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Annealed, 0.157 in	253	°F	ISO 75-2/A
Vicat Softening Temperature	286	°F	ISO 306/B120
--	282	°F	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.030 in)	V-2		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature		
Desiccant Dryer	230	°F
Hot Air Dryer	248	°F
Drying Time		
Desiccant Dryer	2.0 to 4.0	hr
Hot Air Dryer	2.0 to 6.0	hr
Suggested Max Moisture	< 0.050	%
Rear Temperature	464 to 482	°F
Middle Temperature	500 to 518	°F
Front Temperature	536 to 590	°F
Nozzle Temperature	554 to 590	°F
Mold Temperature	104 to 212	°F
Injection Pressure	7110 to 35600	psi
Back Pressure	71.1 to 284	psi
Screw Speed	50 to 150	rpm

Injection Notes

Hot Runner Temperature: 290 to 310°C

Notes

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

² 2.0 in/min

³ 0.11 in/min

⁴ 0.079 in/min

⁵ 4mm