

Infino HF-1023IM

Lotte Chemical Corporation - Polycarbonate

General Information

General

RoHS Compliance • RoHS Compliant

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity (Natural)	1.18		ASTM D792
Density (Natural)	1.18	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	22	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	22	g/10 min	ISO 1133
Molding Shrinkage - Flow (0.126 in)	4.0E-3 to 7.0E-3	in/in	ASTM D955
Molding Shrinkage - Across Flow (0.126 in)	4.0E-3 to 7.0E-3	in/in	ASTM D955
Molding Shrinkage			ISO 294-4
Across Flow : 0.0787 in	0.40 to 0.70	%	
Flow : 0.0787 in	0.40 to 0.70	%	
Water Absorption (Saturation, 73°F)	0.35	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ²	279000	psi	ASTM D638
Tensile Modulus	305000	psi	ISO 527-1/50
Tensile Strength ² (Yield)	8530	psi	ASTM D638
Tensile Stress (Yield)	8700	psi	ISO 527-2/50
Tensile Strength ² (Break)	9960	psi	ASTM D638
Tensile Stress (Break)	13900	psi	ISO 527-2/50
Tensile Elongation ² (Break)	120	%	ASTM D638
Tensile Strain (Break)	100	%	ISO 527-2/50
Flexural Modulus ³	284000	psi	ASTM D790
Flexural Modulus ⁴	305000	psi	ISO 178
Flexural Strength ³	12100	psi	ASTM D790
Flexural Stress ⁴	12800	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁵ (73°F)	32	ft·lb/in ²	ISO 179/1eA
Notched Izod Impact			ASTM D256
73°F, 0.125 in	13	ft·lb/in	
73°F, 0.250 in	10	ft·lb/in	
Notched Izod Impact Strength ⁵ (73°F)	30	ft·lb/in ²	ISO 180/1A
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Rockwell Hardness (R-Scale)	120		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/B
66 psi, Unannealed, 0.157 in	271	°F	

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed, 0.252 in	259	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed, 0.157 in	248	°F	ISO 75-2/A
Vicat Softening Temperature	280	°F	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.04 in	V-2		
0.06 in	V-2		
0.12 in	V-2		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature		
Desiccant Dryer	212	°F
Hot Air Dryer	212	°F
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	518	°F
Middle Temperature	536	°F
Front Temperature	554	°F
Nozzle Temperature	572	°F
Mold Temperature	176 to 212	°F
Injection Pressure	14200	psi
Back Pressure	142 to 427	psi
Screw Speed	40 to 80	rpm

Injection Notes

Hot Runner Temperature: 300°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