

Infino UF-1017B

Lotte Chemical Corporation - Polycarbonate

General Information

General

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

Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity (Natural)	1.19		ASTM D792
Density (Natural)	1.19	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	28	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	28	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	319000	psi	ISO 527-1/50
Tensile Strength ² (Yield)	8820	psi	ASTM D638
Tensile Stress (Yield)	8850	psi	ISO 527-2/50
Tensile Stress (Break)	7250	psi	ISO 527-2/50
Tensile Strain (Break)	52	%	ISO 527-2/50
Flexural Modulus ³	341000	psi	ASTM D790
Flexural Modulus ⁴	363000	psi	ISO 178
Flexural Strength ³	12900	psi	ASTM D790
Flexural Stress ⁴	13800	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁵ (73°F)	7.6	ft·lb/in ²	ISO 179/1eA
Notched Izod Impact (73°F, 0.125 in)	11	ft·lb/in	ASTM D256
Notched Izod Impact Strength ⁵ (73°F)	6.7	ft·lb/in ²	ISO 180/1A
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 66 psi, Unannealed, 0.157 in	217	°F	ISO 75-2/B
Deflection Temperature Under Load 66 psi, Annealed, 0.157 in	225	°F	ISO 75-2/B
Deflection Temperature Under Load 264 psi, Unannealed, 0.157 in	196	°F	ISO 75-2/A
Deflection Temperature Under Load 264 psi, Annealed, 0.157 in	219	°F	ISO 75-2/A
Vicat Softening Temperature			
--	232	°F	ISO 306/B120
--	228	°F	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.03 to 0.12 in)	V-0		UL 94

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Processing Information

Injection	Nominal Value	Unit
Drying Temperature		
Desiccant Dryer	176	°F
Hot Air Dryer	176	°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	428 to 446	°F
Middle Temperature	464 to 536	°F
Front Temperature	500 to 572	°F
Nozzle Temperature	536	°F
Mold Temperature	104 to 248	°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: 280°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