

Infino VB-8202G

Lotte Chemical Corporation - Polyphenylene Ether

General Information

General

Filler / Reinforcement	• Glass Fiber
Uses	• Tanks

Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity (Natural)	1.22		ASTM D792
Density (Natural)	1.22	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	2.5	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	2.5	g/10 min	ISO 1133
Ash Content			
--	20	%	ASTM D5630
--	20	%	ISO 3451

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	11700	psi	ASTM D638
Tensile Stress (Yield)	119000	psi	ISO 527-2/50
Flexural Modulus ³	782000	psi	ASTM D790
Flexural Modulus ⁴	7.98E+6	psi	ISO 178
Flexural Strength ³	17500	psi	ASTM D790
Flexural Stress ⁴	178000	psi	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.8	ft-lb/in	ASTM D256
Notched Izod Impact Strength ⁵ (73°F)	4.8	ft-lb/in ²	ISO 180/1A

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 66 psi, Unannealed, 0.157 in	266	°F	ISO 75-2/B
Deflection Temperature Under Load 264 psi, Unannealed, 0.252 in	266	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed, 0.157 in	266	°F	ISO 75-2/A

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.030 in	V-1		
0.06 in	V-1		
0.12 in	V-1		
0.24 in	V-1		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature		
Desiccant Dryer	212	°F
Hot Air Dryer	212	°F

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Injection	Nominal Value	Unit
Drying Time		
Desiccant Dryer	2.0	hr
Hot Air Dryer	4.0	hr
Suggested Max Moisture	0.040	%
Rear Temperature	500	°F
Middle Temperature	500 to 518	°F
Front Temperature	518 to 554	°F
Nozzle Temperature	554	°F
Mold Temperature	140 to 176	°F
Injection Pressure	28400	psi
Back Pressure	284 to 569	psi
Screw Speed	200 to 500	rpm

Injection Notes

Hot Runner Temperature: 290 to 300°C

Notes

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

² 0.20 in/min

³ 0.11 in/min

⁴ 0.079 in/min

⁵ 4mm