

# Diamond 1011582CT PC E-14961B GF32 BLKBLK

LyondellBasell Industries - Polycarbonate

## General Information

### Product Description

32% Glass Fiber Reinforced Polycarbonate

### General

Filler / Reinforcement	• Glass Fiber, 32% Filler by Weight
Processing Method	• Extrusion • Injection Molding

## Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.43		ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
300°C/1.2 kg	5.4	g/10 min	
300°C/3.8 kg	27	g/10 min	
300°C/5.0 kg	30	g/10 min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>2</sup> (73°F, 0.122 in, Injection Molded)	63800	psi	ASTM D638
Tensile Strength <sup>2</sup>			ASTM D638
Break, 73°F, 0.122 in, Injection Molded	17000	psi	
Tensile Elongation <sup>2</sup>			ASTM D638
Break, 73°F, 0.122 in, Injection Molded	2.7	%	
Flexural Modulus - 1% Secant <sup>3</sup>	1.13E+6	psi	ASTM D790
Flexural Strength <sup>3</sup> (Yield)	17100	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.121 in)	3.4	ft·lb/in	ASTM D256
Unnotched Izod Impact (73°F, 0.121 in)	17	ft·lb/in	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, 0.496 in	295	°F	
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, 0.496 in	288	°F	
CLTE - Flow (-4 to 266°F)	1.0E-5	in/in/°F	ASTM D696
CLTE - Transverse (-4 to 266°F)	3.6E-5	in/in/°F	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Burning Rate			
0.0787 in	< 3.9	in/min	ISO 3795
0.0787 in	< 3.9	in/min	FMVSS 302

## Processing Information

Injection	Nominal Value	Unit
Drying Temperature	250	°F
Drying Time	3.0 to 6.0	hr
Drying Time, Maximum	6.0	hr
Rear Temperature	540 to 579	°F
Middle Temperature	559 to 601	°F

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Injection	Nominal Value	Unit
Front Temperature	579 to 640	°F
Nozzle Temperature	579 to 640	°F
Processing (Melt) Temp	601 to 649	°F
Mold Temperature	180 to 241	°F

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 0.20 in/min

<sup>3</sup> 0.051 in/min