

# Polyflam 50S5302NCBLK

LyondellBasell Industries - Polycarbonate

## General Information

### Product Description

Polyflam 50S5302NCBLK is a Polycarbonate Glass Fiber, 30% filled material and is typically used in Injection Molding applications.

### General

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Forms	• Pellets
Processing Method	• Injection Molding

## Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.43		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	16500	psi	ASTM D638
Flexural Modulus	999000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	2.1	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	306	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	295	°F	ASTM D648
RTI Str	200	°F	UL 746B
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

## Processing Information

Injection	Nominal Value	Unit
Drying Temperature	250	°F
Drying Time	4.0 to 6.0	hr
Rear Temperature	540 to 590	°F
Middle Temperature	540 to 590	°F
Front Temperature	540 to 590	°F
Processing (Melt) Temp	559 to 610	°F
Mold Temperature	160 to 219	°F
Injection Rate	Slow-Moderate	
Back Pressure	50.0 to 99.9	psi
Screw Speed	40 to 75	rpm
Cushion	0.250 to 0.500	in