

# Polyfort PPHGBF4030RD H3BLK70400

LyondellBasell Industries - Polypropylene Homopolymer

## General Information

### Product Description

Glass fibre reinforced PP-Homopolymer, chemically coupled with reduced Density and improved shrinkage. Long-term heat stabilized

### General

Filler / Reinforcement	• Glass Bubble	• Glass Fiber	
Additive	• Heat Stabilizer		
Features	• Chemically Coupled	• Heat Stabilized	• Homopolymer
Processing Method	• Injection Molding		
Resin ID	• PP-GF		

## Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.00	g/cm <sup>3</sup>	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	10	cm <sup>3</sup> /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	943000	psi	ISO 527-1/1A/1
Tensile Stress (Break)	13100	psi	ISO 527-2/1A/5
Tensile Strain (Break)	3.0	%	ISO 527-2/1A/5
Flexural Modulus	885000	psi	ISO 178
Flexural Stress	19600	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	3.3	ft-lb/in <sup>2</sup>	
73°F	3.8	ft-lb/in <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	19	ft-lb/in <sup>2</sup>	
73°F	24	ft-lb/in <sup>2</sup>	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	20900	psi	ISO 2039-1
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	302	°F	ISO 75-2/Bf
Deflection Temperature Under Load 264 psi, Unannealed	282	°F	ISO 75-2/Af
Vicat Softening Temperature			
--	271	°F	ISO 306/B50
--	311	°F	ISO 306/A50
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	ohms·m	IEC 62631-3-1
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

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<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flammability Classification			IEC 60695-11-10, -20
0.06 in		HB	
0.12 in		HB	

**Processing Information**

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
Drying Temperature	176	°F
Drying Time	2.0 to 3.0	hr
Hopper Temperature	158 to 176	°F
Rear Temperature	> 446	°F
Processing (Melt) Temp	428 to 500	°F
Mold Temperature	86 to 140	°F
Injection Pressure	< 16000	psi
Injection Rate	Moderate	
Back Pressure	< 725	psi