

# Polyfort RPP40EB77HB-NA GAPEX HPNAT

LyondellBasell Industries - Polypropylene Homopolymer

## General Information

### Product Description

Polyfort RPP40EB77HB-NA GAPEX HPNAT is a Polypropylene Homopolymer Glass Fiber, 40% filled material. Features include: Chemically Coupled, and Heat Stabilized.

### General

Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight
Additive	• Heat Stabilizer
Features	• Chemically Coupled      • Heat Stabilized
Appearance	• Natural Color
Forms	• Pellets

## Properties<sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.22		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (73°F)	15700	psi	ASTM D638
Tensile Elongation (Break, 73°F)	5.0	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F	1.11E+6	psi	
Tangent : 73°F	1.18E+6	psi	
Flexural Strength (73°F)	23400	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	2.2	ft-lb/in	ASTM D256
Unnotched Izod Impact (73°F)	13	ft-lb/in	ASTM D4812
Gardner Impact (73°F)	4.00	in-lb	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	322	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	309	°F	ASTM D648

## Processing Information

Injection	Nominal Value	Unit
Drying Temperature	160 to 180	°F
Drying Time	2.0 to 4.0	hr
Rear Temperature	430 to 460	°F
Middle Temperature	441 to 469	°F
Front Temperature	450 to 500	°F
Nozzle Temperature	450 to 500	°F
Processing (Melt) Temp	430 to 460	°F
Mold Temperature	100 to 151	°F
Injection Rate	Slow-Moderate	
Back Pressure	20.0 to 50.0	psi
Cushion	0.200 to 0.500	in