

Technical Data Sheet

Polyfort RPP40EB77HB-NA GAPEX HPNAT



Polypropylene, Homopolymer

Product Description

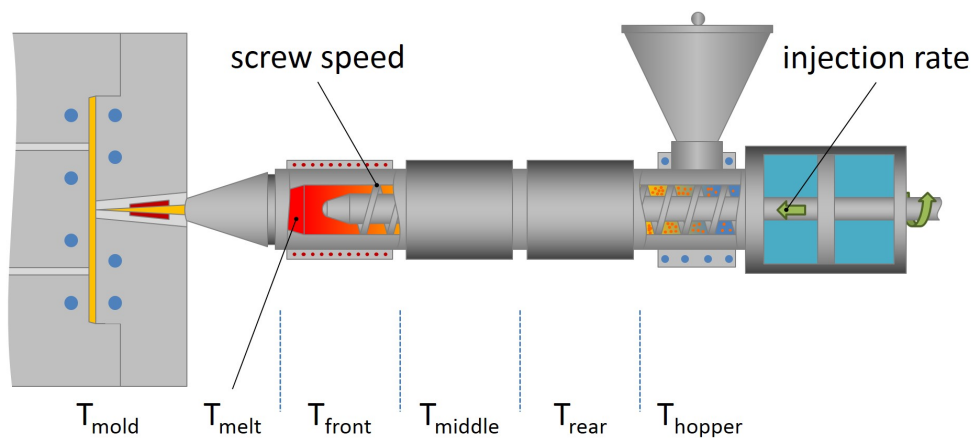
Polyfort RPP40EB77HB-NA GAPEX HPNAT is a Polypropylene Homopolymer Glass Fiber, 40% filled material. Features include: Chemically Coupled, and Heat Stabilized.

Regulatory Status

For regulatory compliance information, see RPP40EB77HB-NA GAPEX HPNAT [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Latin America; North America
Attribute	Chemically Coupled; Heat Stabilized
Forms	Pellets
Appearance	Natural Color
Additive	Heat Stabilizer
Filler/Reinforcement	Glass Fiber, 40%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	3.0	g/10 min	ASTM D1238
Density - Specific Gravity	1.22	g/cm ³	ASTM D792
Mechanical			
Tensile Strength, (23 °C)	108	MPa	ASTM D638
Flexural Modulus			
(23 °C, 1% Secant)	7660	MPa	ASTM D790
(23 °C, Tangent)	8150	MPa	ASTM D790
Tensile Elongation at Break, (23 °C)	5.0	%	ASTM D638
Flexural Strength, (23 °C)	161	MPa	ASTM D790
Impact			
Gardner Impact, (23 °C)	0.452	J	ASTM D5420
Unnotched Izod Impact, (23 °C)	690	J/m	ASTM D4812
Notched Izod Impact, (23 °C)	120	J/m	ASTM D256
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	154	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	161	°C	ASTM D648



Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	71 to 82	°C
Nozzle Temperature	232 to 260	°C
Processing (Melt) Temp	221 to 238	°C
Front Temperature	232 to 260	°C
Middle Temperature	227 to 243	°C
Rear Temperature	221 to 238	°C
Injection Rate	Slow-Moderate	
Back Pressure	0.138 to 0.345	MPa
Mold Temperature	38 to 66	°C
Cushion	5.08 to 12.7	mm

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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