

Technical Data Sheet

Polyfort RPP30EA16NA-NA GAPEXNAT



Polypropylene, Homopolymer

Product Description

Polyfort RPP30EA16NA-NA GAPEXNAT is a Polypropylene Homopolymer Glass Fiber, 31% filled material and is typically used in Injection Molding applications. Features include: Chemically Coupled, Heat Stabilized, and Homopolymer.

Regulatory Status

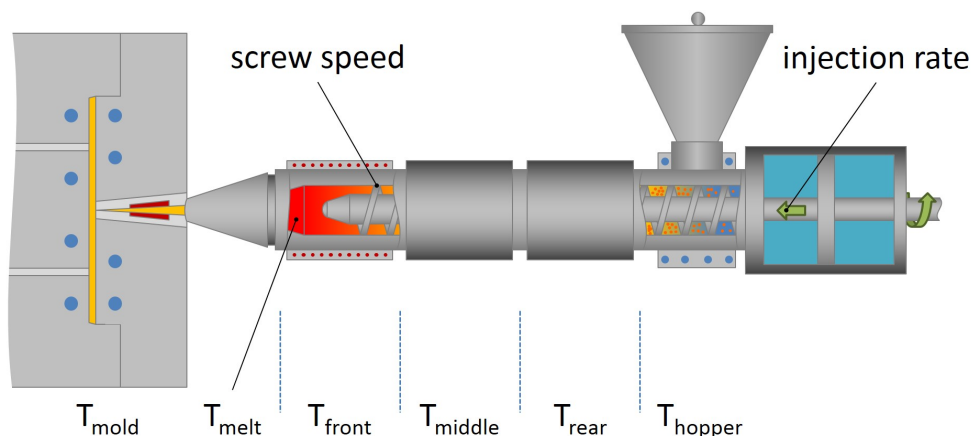
For regulatory compliance information, see RPP30EA16NA-NA GAPEXNAT [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Latin America; North America
Processing Method	Injection Molding
Attribute	Chemically Coupled; Heat Stabilized; Homopolymer
Forms	Pellets
Appearance	Natural Color
Additive	Heat Stabilizer
Application	Automotive Applications; Automotive Under the Hood
Filler/Reinforcement	Glass Fiber, 31%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(230 °C/2.16 kg)	3.5	g/10 min	ISO 1133
(230 °C/2.16 kg)	3.0	g/10 min	ASTM D1238
Density	1.13	g/cm ³	ISO 1183
Density - Specific Gravity	1.15	g/cm ³	ASTM D792
Mechanical			
Tensile Strength at Yield	82.7	MPa	ASTM D638
Flexural Strength at Yield	117	MPa	ASTM D790
Tensile Stress at Yield, (23 °C)	82.8	MPa	ISO 527-2
Flexural Modulus	5200	MPa	ISO 178
Tensile Elongation at Break	6	%	ASTM D638
Impact			
Notched Izod Impact Strength			
(23 °C)	8.0	kJ/m ²	ISO 180
(-40 °C)	5.5	kJ/m ²	ISO 180
Gardner Impact	0.565	J	ASTM D3029
Unnotched Izod Impact, (23 °C)	640	J/m	ASTM D4812
Notched Izod Impact, (23 °C)	85	J/m	ASTM D256
Hardness			
Durometer Hardness, (Shore D)	75		ASTM D2240

Thermal

Deflection Temperature Under Load Unannealed (0.45 MPa)	158 °C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	150 °C	ISO 75-2/A
Deflection Temperature Under Load Unannealed (264 psi)	149 °C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	163 °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/>.

© LyondellBasell Industries Holdings, B.V. 2018

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.