

Technical Data Sheet

# Gapex RPP30EA36HB

Polypropylene Homopolymer  
LyondellBasell Industries  
Engineering Plastics

General	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Chemically Coupled • Homopolymer
UL File Number	• E79238N
Appearance	• Natural Color
Forms	• Pellets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.13	1.13 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	5.0 g/10 min	5.0 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	11400 psi	78.6 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	4.0 %	4.0 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	750000 psi	5170 MPa	
Tangent : 73°F (23°C)	785000 psi	5410 MPa	
Flexural Strength (73°F (23°C))	17000 psi	117 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.5 ft-lb/in	80 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	8.6 ft-lb/in	460 J/m	ASTM D4812

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	320 °F	160 °C	
264 Psi (1.8 Mpa), Unannealed	295 °F	146 °C	
RTI Elec (0.06 In (1.5 Mm))	149 °F	65.0 °C	UL 746B
RTI Imp (0.06 In (1.5 Mm))	149 °F	65.0 °C	UL 746B
RTI Str (0.06 In (1.5 Mm))	149 °F	65.0 °C	UL 746B

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.06 In (1.5 Mm))	HB	HB	UL 94

**Additional Information**  
 The value listed as Unnotched Izod Impact, ASTM D256, was tested in accordance with ASTM D4812.  
 Filler Content, ASTM D3584: 30.0%  
 Testing and measurements were performed at 73 +/-3°F and 50 +/-5% relative humidity unless otherwise noted.

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	160 to 180 °F	71 to 82 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	430 to 460 °F	221 to 238 °C
Middle Temperature	440 to 470 °F	227 to 243 °C
Front Temperature	450 to 500 °F	232 to 260 °C
Nozzle Temperature	450 to 500 °F	232 to 260 °C
Processing (Melt) Temp	430 to 460 °F	221 to 238 °C
Mold Temperature	100 to 150 °F	38 to 66 °C
Injection Rate	Slow-Moderate	Slow-Moderate
Back Pressure	20.0 to 50.0 psi	0.138 to 0.345 MPa
Cushion	0.200 to 0.500 in	5.08 to 12.7 mm

**Notes**

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