Technical Data Sheet

Gapex RPP30EB57HB NATURAL

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.14	1.14 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°c/2.16 Kg)	4.5 g/10 min	4.5 g/10 min	ASTM D1238
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength (73°f (23°c))	13700 psi	94.5 MPa	ASTM D638
Tensile Elongation (Break, 73°f (23°c))	5.0 %	5.0 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°f (23°c)	802000 psi	5530 MPa	
Tangent : 73°f (23°c)	845000 psi	5830 MPa	
Flexural Strength (73°f (23°c))	20900 psi	144 MPa	ASTM D790
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact (73°f (23°c))	2.2 ft·lb/in	120 J/m	ASTM D256
Unnotched Izod Impact (73°f (23°c))	13 ft·lb/in	700 J/m	ASTM D4812
Gardner Impact (73°f (23°c))	4.50 in·lb	0.508 J	ASTM D5420
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	315 °F	157 °C	
264 Psi (1.8 Mpa), Unannealed	305 °F	152 °C	

Additional Information

Testing and measurements were performed at 73 +/-3°F and 50 +/-5% relative humidity unless otherwise noted.

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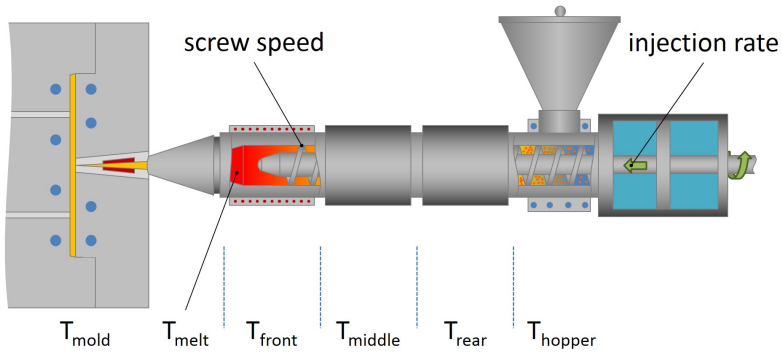

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	160 to 180 °F	71 to 82 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	430 to 460 °F	221 to 238 °C
Middle Temperature	440 to 470 °F	227 to 243 °C
Front Temperature	450 to 500 °F	232 to 260 °C
Nozzle Temperature	450 to 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.