Technical Data Sheet

Gapex Hp RPP30EU92BK

Polypropylene
LyondellBasell Industries
Engineering Plastics

General			
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• Heat Stabilizer	• Impact Modifier	• UV Stabilizer
Features	• Chemically Coupled	• Heat Stabilized	• Impact Modified
Forms	• Pellets		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.13 g/cm³	1.13 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°c/2.16 Kg)	4.5 g/10 min	4.5 g/10 min	ISO 1133
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	725000 psi	5000 MPa	ISO 527-1
Tensile Stress (Yield)	12200 psi	84.2 MPa	ISO 527-2
Tensile Strain (Break)	8.0 %	8.0 %	ISO 527-2
Flexural Modulus - Tangent	761000 psi	5250 MPa	ISO 178
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact Strength			ISO 180/1A
-40°f (-40°c)	3.9 ft·lb/in²	8.2 kJ/m²	
73°f (23°c)	7.1 ft·lb/in²	15 kJ/m²	
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/A
264 Psi (1.8 Mpa), Unannealed	295 °F	146 °C	

Additional Information

Filler Content, ISO 3451: 30%
Flammability, ISO 3795: 18 mm/min
Mold Shrinkage, ISO 2577, Flow, 48 hr, 23°C: 0.2%
Mold Shrinkage, ISO 2577, Across Flow, 48 hr, 23°C: 0.7%

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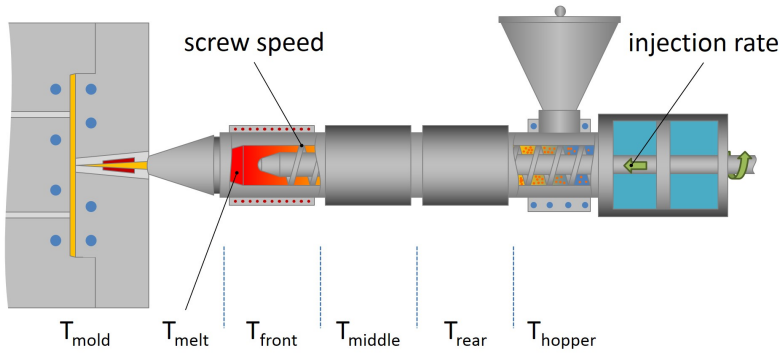

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	160 to 180 °F	71 to 82 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	430 to 460 °F	221 to 238 °C
Middle Temperature	440 to 470 °F	227 to 243 °C
Front Temperature	450 to 500 °F	232 to 260 °C
Nozzle Temperature	450 to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