

Technical Data Sheet

**GAPEX®**  
**HP RPP30EU92BK**

Polypropylene  
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/cm <sup>3</sup>	1.13 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.5 g/10 min	4.5 g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.70 %	0.70 %	
Flow	0.20 %	0.20 %	

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	725000 psi	5000 MPa	ISO 527-2
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/in <sup>2</sup>	8.2 kJ/m <sup>2</sup>	
73°F (23°C)	7.1 ft·lb/in <sup>2</sup>	15 kJ/m <sup>2</sup>	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			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%	

Technical Data Sheet

**GAPEX®**  
**HP RPP30EU92BK**

Polypropylene  
Engineering Plastics



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.