

Technical Data Sheet

GAPEX®

HP RPP20EV10HB

Polypropylene Copolymer
Engineering Plastics



General			
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight		
Features	• Chemically Coupled • Copolymer		
Appearance	• Grey		
Forms	• Pellets		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.06	1.06 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0 g/10 min	4.0 g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	5.0E-3 in/in	0.50 %	
Across Flow	9.0E-3 in/in	0.90 %	

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, 73°F (23°C))	9300 psi	64.1 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	4.5 %	4.5 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	510000 psi	3520 MPa	
Tangent : 73°F (23°C)	535000 psi	3690 MPa	
Flexural Strength (Yield, 73°F (23°C))	14500 psi	100 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))	9.5 ft·lb/in	510 J/m	ASTM D256

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	317 °F	158 °C	
264 psi (1.8 MPa), Unannealed	290 °F	143 °C	
RTI Elec (0.06 in (1.5 mm))	149 °F	65.0 °C	UL 746
RTI Imp (0.06 in (1.5 mm))	149 °F	65.0 °C	UL 746
RTI Str (0.06 in (1.5 mm))	149 °F	65.0 °C	UL 746

Additional Information			
Filler Content, ASTM D2584: 21%			

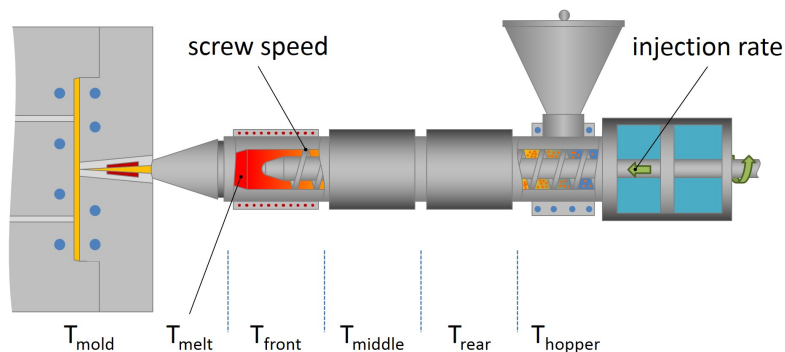
Technical Data Sheet

GAPEX®

HP RPP20EV10HB

Polypropylene Copolymer
Engineering Plastics

lyondellbasell



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.

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