

Technical Data Sheet

GAPEX®
HP RPP40EB98HB

Polypropylene Homopolymer
Engineering Plastics



General

Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight
Features	• Chemically Coupled • Homopolymer
Appearance	• Black
Forms	• Pellets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.23	1.23 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.5 g/10 min	3.5 g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	3.0E-3 in/in	0.30 %	
Across Flow	0.011 in/in	1.1 %	

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, 73°F (23°C))	14200 psi	97.9 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)	970000 psi	6690 MPa	
Tangent : 73°F (23°C)	1.05E+6 psi	7240 MPa	
Flexural Strength (Yield, 73°F (23°C))	21300 psi	147 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.8 ft·lb/in	96 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	11 ft·lb/in	590 J/m	ASTM D256
Gardner Impact	3.50 in·lb	0.395 J	ASTM D5420

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	325 °F	163 °C	
264 psi (1.8 MPa), Unannealed	305 °F	152 °C	

Additional Information

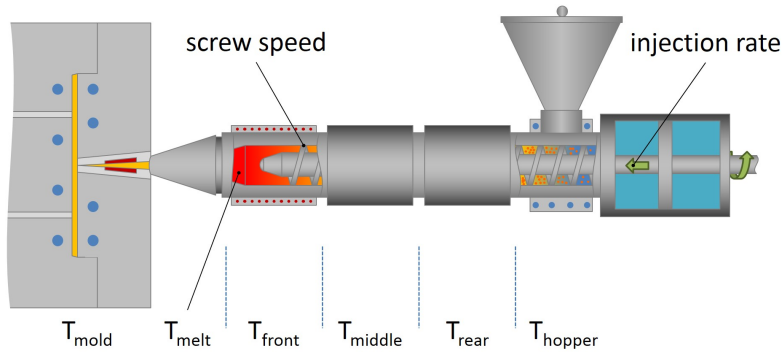
Filler Content, ASTM D2584: 40%

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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.