

Gapex RPP20EA06HB-BK

Polypropylene Homopolymer

LyondellBasell Industries

Engineering Plastics

General			
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight		
Features	• Chemically Coupled • Creep Resistant • Homopolymer • Low Shrinkage		
Uses	• Automotive Applications		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.05	1.05 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	5.0 g/10 min	5.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	8700 psi	60.0 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)	526000 psi	3630 MPa	
Tangent : 73°F (23°C)	550000 psi	3790 MPa	
Flexural Strength (73°F (23°C))	13300 psi	91.7 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.1 ft·lb/in	59 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	6.5 ft·lb/in	350 J/m	ASTM D4812
Gardner Impact			ASTM D5420
0.125 In (3.18 Mm)	2.00 in·lb	0.226 J	
73°F (23°C)	3.00 in·lb	0.339 J	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	72	72	ASTM D2240
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	290 °F	143 °C	

Additional Information

The value listed as Unnotched Izod Impact, ASTM D256, was tested in accordance with ASTM D4812.

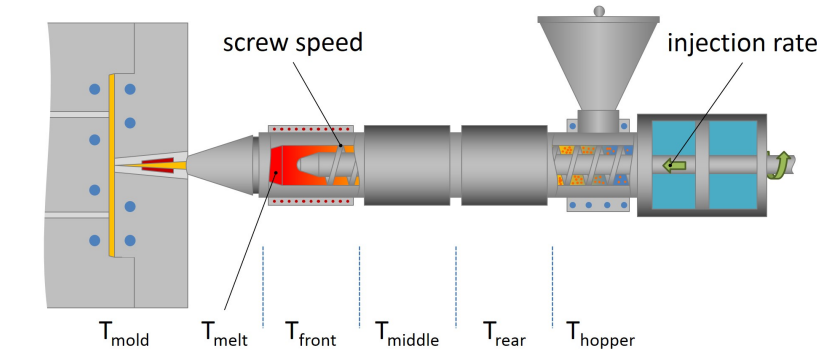
Filler Content, ASTM D2584: 20.0%

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.

