

Gapex RPP30DZ10BK

Polypropylene Homopolymer

LyondellBasell Industries

Engineering Plastics

General			
Filler / Reinforcement	• Glass Fiber, 29% Filler by Weight		
Forms	• Pellets		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.13	1.13 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	19 g/10 min	19 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	7190 psi	49.6 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	2.7 %	2.7 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	495000 psi	3410 MPa	
Tangent : 73°F (23°C)	534000 psi	3680 MPa	
Flexural Strength (73°F (23°C))	10900 psi	75.2 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	0.80 ft·lb/in	43 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	3.3 ft·lb/in	180 J/m	ASTM D4812
Gardner Impact (73°F (23°C))	1.50 in·lb	0.169 J	ASTM D5420
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	319 °F	159 °C	
264 Psi (1.8 Mpa), Unannealed	290 °F	143 °C	

Additional Information

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.

