

Technical Data Sheet

# 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 <sup>3</sup>	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.

Technical Data Sheet

# Gapex RPP30DZ10BK

Polypropylene Homopolymer  
 LyondellBasell Industries  
 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.