

Technical Data Sheet

# Gapex RPP40EV03BK

Polypropylene  
LyondellBasell Industries  
Engineering Plastics

General			
Filler / Reinforcement	Glass Fiber, 40% Filler by Weight		
Additive	• Heat Stabilizer	• Impact Modifier	
Features	• Chemically Coupled	• Heat Stabilized	• Impact Modified
Forms	• Pellets		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.23	1.23 g/cm <sup>3</sup>	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 (Yield, 73°F (23°C))	10900 psi	75.2 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	4.0 %	4.0 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	870000 psi	6000 MPa	
Tangent : 73°F (23°C)	926000 psi	6380 MPa	
Flexural Strength (Yield, 73°F (23°C))	16400 psi	113 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	2.5 ft·lb/in	130 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	10 ft·lb/in	530 J/m	ASTM D4812
Gardner Impact	4.00 in·lb	0.452 J	ASTM D5420

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	320 °F	160 °C	
264 Psi (1.8 Mpa), Unannealed	290 °F	143 °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.