

Technical Data Sheet

# Gapex RPP20EA90NA

Polypropylene Homopolymer  
 LyondellBasell Industries  
 Engineering Plastics

General			
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight		
Features	• Chemically Coupled	• Homopolymer	
Forms	• Pellets		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.03	1.03 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	6.0 g/10 min	6.0 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, 73°F (23°C))	9400 psi	64.8 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)	485000 psi	3340 MPa	
Tangent : 73°F (23°C)	525000 psi	3620 MPa	
Flexural Strength (Yield, 73°F (23°C))	13500 psi	93.1 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.4 ft·lb/in	75 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	9.3 ft·lb/in	500 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	318 °F	159 °C	
264 Psi (1.8 Mpa), Unannealed	295 °F	146 °C	

Additional Information			
Filler Content, ASTM D2584: 20%			

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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.