

Technical Data Sheet

Gapex RPP30EU91NA

Polypropylene
LyondellBasell Industries
Engineering Plastics

General			
Additive	• Heat Stabilizer	• Impact Modifier	• UV Stabilizer
Features	• Chemically Coupled	• Impact Modified	
	• Heat Stabilized	• UV Resistant	
Forms	• Pellets		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.12 g/cm ³	1.12 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	4.5 g/10 min	4.5 g/10 min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	280000 psi	1930 MPa	ISO 527-1
Tensile Stress (Yield)	10200 psi	70.2 MPa	ISO 527-2
Tensile Strain (Break)	8.0 %	8.0 %	ISO 527-2
Flexural Modulus - Tangent	636000 psi	4390 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact Strength			ISO 180
-40°F (-40°C)	4.0 ft·lb/in ²	8.4 kJ/m ²	
73°F (23°C)	5.5 ft·lb/in ²	12 kJ/m ²	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ISO 75-2/A
264 Psi (1.8 Mpa), Unannealed	284 °F	140 °C	

Additional Information	
Flammability, ISO 3795: 18 mm/min	
Linear Mold Shrinkage, 48 hrs @ 23°C, ISO 2577: 0.2%	

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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.