

Technical Data Sheet

Gapex RPP40EA35UL-NA

Polypropylene Homopolymer
 LyondellBasell Industries
 Engineering Plastics

General	
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight
Features	• Chemically Coupled
UL File Number	• E79238N
Appearance	• Natural Color
Forms	• Pellets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.23	1.23 g/cm ³	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 (73°F (23°C))	13500 psi	93.1 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	3.0 %	3.0 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	1.10E+6 psi	7600 MPa	
Tangent : 73°F (23°C)	1.12E+6 psi	7690 MPa	
Flexural Strength (73°F (23°C))	20300 psi	140 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.5 ft·lb/in	80 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	8.5 ft·lb/in	450 J/m	ASTM D4812

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	315 °F	157 °C	
264 Psi (1.8 Mpa), Unannealed	305 °F	152 °C	
RTI Elec (0.06 In (1.5 Mm))	149 °F	65.0 °C	UL 746B
RTI Imp (0.06 In (1.5 Mm))	149 °F	65.0 °C	UL 746B
RTI Str (0.06 In (1.5 Mm))	149 °F	65.0 °C	UL 746B

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating	HB	HB	UL 94

Additional Information
 The value listed as Unnotched Izod Impact, ASTM D256, was tested in accordance with ASTM D4812.
 Filler Content, ASTM D2584: 40.0%
 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.