

# Gapex RPP30EB22NA

Polypropylene Homopolymer

LyondellBasell Industries

Engineering Plastics

| General                   |                      |                   |
|---------------------------|----------------------|-------------------|
| Additive                  | • Heat Stabilizer    |                   |
| Features                  | • Chemically Coupled | • Heat Stabilized |
| Automotive Specifications | • FORD WSB-M4D732-A4 |                   |
| Forms                     | • Pellets            |                   |

| Physical                                  | Nominal Value (English) | Nominal Value (SI)     | Test Method |
|-------------------------------------------|-------------------------|------------------------|-------------|
| Density                                   | 1.14 g/cm <sup>3</sup>  | 1.14 g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg) | 16 g/10 min             | 16 g/10 min            | ISO 1133    |

| Mechanical                          | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-------------------------------------|-------------------------|--------------------|-------------|
| Tensile Stress (Yield, 73°F (23°C)) | 11000 psi               | 75.5 MPa           | ISO 527-2   |
| Flexural Modulus                    | 827000 psi              | 5700 MPa           | ISO 178     |

| Impact                       | Nominal Value (English)   | Nominal Value (SI)    | Test Method |
|------------------------------|---------------------------|-----------------------|-------------|
| Notched Izod Impact Strength |                           |                       | ISO 180     |
| -40°F (-40°C)                | 3.1 ft·lb/in <sup>2</sup> | 6.5 kJ/m <sup>2</sup> |             |
| 73°F (23°C)                  | 3.5 ft·lb/in <sup>2</sup> | 7.3 kJ/m <sup>2</sup> |             |

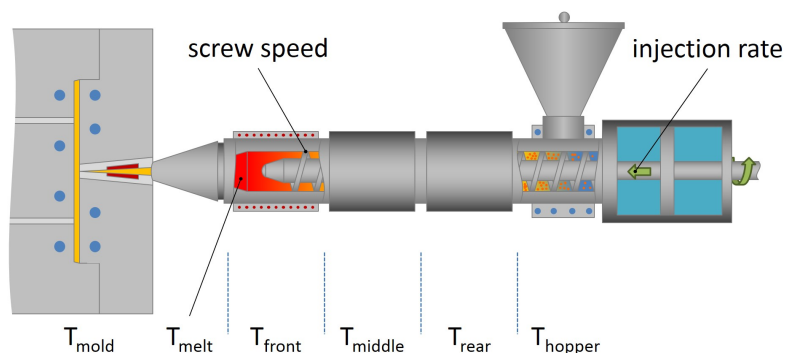
| Thermal                           | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-----------------------------------|-------------------------|--------------------|-------------|
| Deflection Temperature Under Load |                         |                    |             |
| 66 Psi (0.45 Mpa), Unannealed     | 313 °F                  | 156 °C             | ISO 75-2/B  |
| 264 Psi (1.8 Mpa), Unannealed     | 282 °F                  | 139 °C             | ISO 75-2/A  |

## Additional Information

Tensile/Izod Change, 1,000 hrs @ 140°C, ISO 188: +11/+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.