**Technical Data Sheet**

# *Gapex* RPP40DA11NA

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

| General | |
|---|---|
| Filler / Reinforcement | • Glass Fiber, 40% Filler by Weight |
| Forms | • Pellets |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 1.22 | 1.22 g/cm³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°c/2.16 Kg) | 3.5 g/10 min | 3.5 g/10 min | ASTM D1238 |
| **Mechanical** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Tensile Strength (73°f (23°c)) | 11200 psi | 77.2 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) | 984000 psi | 6780 MPa | |
| Tangent : 73°f (23°c) | 1.12E+6 psi | 7720 MPa | |
| Flexural Strength (73°f (23°c)) | 15200 psi | 105 MPa | ASTM D790 |
| **Impact** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Notched Izod Impact (73°f (23°c)) | 1.2 ft·lb/in | 64 J/m | ASTM D256 |
| Unnotched Izod Impact (73°f (23°c)) | 4.0 ft·lb/in | 210 J/m | ASTM D4812 |
| Gardner Impact (73°f (23°c)) | 2.00 in·lb | 0.226 J | ASTM D5420 |
| **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 | 295 °F | 146 °C | |

**Additional Information**

Testing and measurements were performed at 73 +/-3°F and 50 +/-5% relative humidity unless otherwise noted.

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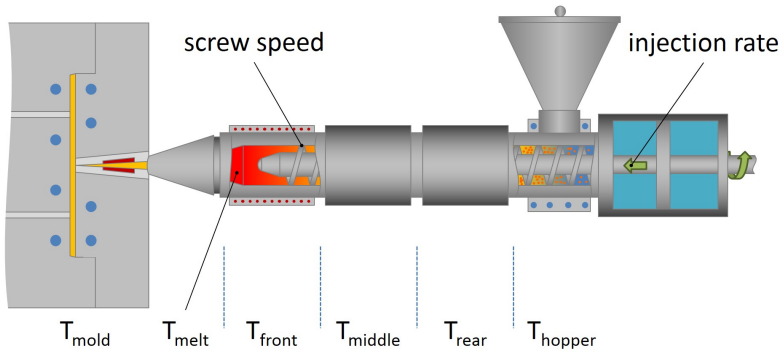


| Injection | Nominal Value (English) | Nominal Value (SI) |
|---|---|---|
| Drying Temperature | 160 to 180 °F | 71 to 82 °C |
| Drying Time | 2.0 to 4.0 hr | 2.0 to 4.0 hr |
| Rear Temperature | 430 to 460 °F | 221 to 238 °C |
| Middle Temperature | 440 to 470 °F | 227 to 243 °C |
| Front Temperature | 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.