

Technical Data Sheet

Gapex RPP40EA59HB BLACK

Polypropylene Homopolymer
 LyondellBasell Industries
 Engineering Plastics

| General | |
|------------------------|-------------------------------------|
| Filler / Reinforcement | • Glass Fiber, 43% Filler by Weight |
| Features | • Chemically Coupled |
| Appearance | • Black |
| Forms | • Pellets |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|-------------------------|------------------------|-------------|
| Density / Specific Gravity | 1.26 | 1.26 g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg) | 7.0 g/10 min | 7.0 g/10 min | ASTM D1238 |

| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|-------------------------|--------------------|-------------|
| Tensile Strength (73°F (23°C)) | 13000 psi | 89.6 MPa | ASTM D638 |
| Tensile Elongation (Break, 73°F (23°C)) | 4.0 % | 4.0 % | ASTM D638 |
| Flexural Modulus | | | ASTM D790 |
| 1% Secant : 73°F (23°C) | 1.10E+6 psi | 7580 MPa | |
| Tangent : 73°F (23°C) | 1.20E+6 psi | 8270 MPa | |
| Flexural Strength (73°F (23°C)) | 20000 psi | 138 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 |

| Thermal | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--|-------------------------|--------------------|-------------|
| Deflection Temperature Under Load 66 Psi (0.45 Mpa), Unannealed | 320 °F | 160 °C | ASTM D648 |

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.