

Polyfort RPP30EA58NA-NA GAPEXNAT

LyondellBasell Industries - Polypropylene Homopolymer

General Information

Product Description

Polyfort RPP30EA58NA-NA GAPEXNAT is a Polypropylene Homopolymer Glass Fiber, 30% filled material. Features include: Chemically Coupled.

General

| | |
|------------------------|-------------------------------------|
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight |
| Features | • Chemically Coupled |
| Forms | • Pellets |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|----------|-------------|
| Density / Specific Gravity | 1.12 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 4.5 | g/10 min | ASTM D1238 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (73°F) | 11800 | psi | ASTM D638 |
| Tensile Elongation (Break, 73°F) | 4.0 | % | ASTM D638 |
| Flexural Modulus | | | ASTM D790 |
| 1% Secant : 73°F | 801000 | psi | |
| Tangent : 73°F | 815000 | psi | |
| Flexural Strength (73°F) | 17800 | psi | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (73°F) | 1.6 | ft-lb/in | ASTM D256 |
| Unnotched Izod Impact (73°F) | 8.1 | ft-lb/in | ASTM D4812 |
| Gardner Impact (73°F) | 2.50 | in-lb | ASTM D5420 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed) | 315 | °F | ASTM D648 |
| Deflection Temperature Under Load 264 psi, Unannealed | 306 | °F | ASTM D648 |

Processing Information

| Injection | Nominal Value | Unit |
|------------------------|----------------|------|
| Drying Temperature | 160 to 180 | °F |
| Drying Time | 2.0 to 4.0 | hr |
| Rear Temperature | 430 to 460 | °F |
| Middle Temperature | 441 to 469 | °F |
| Front Temperature | 450 to 500 | °F |
| Nozzle Temperature | 450 to 500 | °F |
| Processing (Melt) Temp | 430 to 460 | °F |
| Mold Temperature | 100 to 151 | °F |
| Injection Rate | Slow-Moderate | |
| Back Pressure | 20.0 to 50.0 | psi |
| Cushion | 0.200 to 0.500 | in |