

Retpol® 3007 FC

Polypropylene

PolyPacific Pty. Ltd.

Message:

EXTRON 3007 FC is a 30% glass fibre reinforced polypropylene compound. It is a medium flow injection moulding grade developed for components requiring a combination of high rigidity, low shrinkage and improved creep resistance. It has been manufactured in accordance with Australian Standard AS 2070-1999 "Plastic Material for Food Contact Use". The ingredients used in this formulation are referenced in the US Code of Federal Regulations, Volume 21, parts 170-199.

| General Information | | | |
|--|---|-------------------|-------------|
| Filler / Reinforcement | Glass Fiber,30% Filler by Weight | | |
| Features | Food Contact Acceptable Good Creep Resistance High Rigidity Low Shrinkage Medium Flow | | |
| Agency Ratings | AS 2070-1999 | | |
| Forms | Granules | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.14 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 8.0 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow (3.00 mm) | 0.20 to 0.70 | % | ASTM D955 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale, 3.00 mm) | 113 | | ASTM D785 |
| Durometer Hardness | | | ASTM D2240 |
| Shore D, 3.00 mm | 80 | | |
| Shore D, 15 sec, 3.00 mm | 75 | | |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ¹ (3.00 mm) | 50.0 | MPa | ASTM D638 |
| Tensile Elongation ² (Break, 3.00 mm) | 2.0 | % | ASTM D638 |
| Flexural Modulus (3.00 mm) | 6100 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (3.00 mm) | 34 | J/m | ASTM D256 |
| Unnotched Izod Impact (3.00 mm) | 130 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed, 3.00 mm | 155 | °C | |
| 1.8 MPa, Unannealed, 3.00 mm | 135 | °C | |

| CLTE - Flow (-30 to 30°C, 3.00 mm) | 3.0E-5 | cm/cm/°C | ASTM D696 |
|------------------------------------|---------------|----------|-----------|
| Injection | Nominal Value | Unit | |
| Drying Temperature | 100 to 120 | °C | |
| Drying Time | 2.0 to 4.0 | hr | |
| Suggested Max Regrind | 10 | % | |
| Processing (Melt) Temp | 200 to 260 | °C | |
| Mold Temperature | 20.0 to 60.0 | °C | |
| Injection Rate | Moderate | | |
| NOTE | | | |
| 1. | 50 mm/min | | |
| 2. | 50 mm/min | | |

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