



Wednesday, August 30, 2023

PRL ABS-G15

Polymer Resources Ltd. - Acrylonitrile Butadiene Styrene

Units

English ▼

Action

Legend [\(Open\)](#)

General Information

| | |
|------------------------|-------------------------------------|
| General | |
| Material Status | • Commercial: Active |
| Availability | • North America |
| Filler / Reinforcement | • Glass Fiber, 15% Filler by Weight |
| RoHS Compliance | • RoHS Compliant |
| Forms | • Pellets |
| Processing Method | • Injection Molding |

ASTM & ISO Properties ¹

| | | | |
|-------------------------------------------------------------------|------------------|----------|-------------|
| Physical | Nominal Value | Unit | Test Method |
| Density / Specific Gravity | 1.15 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/3.8 kg) | 0.10 to 5.0 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow (0.125 in) | 1.0E-3 to 4.0E-3 | in/in | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield, 0.125 in) | 10000 | psi | ASTM D638 |
| Tensile Strength (Break, 0.125 in) | 10000 | psi | ASTM D638 |
| Flexural Modulus (0.125 in) | 825000 | psi | ASTM D790 |
| Flexural Strength (0.125 in) | 14000 | psi | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (0.125 in) | 1.0 | ft-lb/in | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in) | 220 | °F | ASTM D648 |
| Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in) | 209 | °F | ASTM D648 |

Processing Information

| | | |
|------------------------|---------------|------|
| Injection | Nominal Value | Unit |
| Drying Temperature | 175 to 185 | °F |
| Drying Time | 3.0 to 4.0 | hr |
| Drying Time, Maximum | 8.0 | hr |
| Rear Temperature | 375 to 390 | °F |
| Middle Temperature | 410 to 430 | °F |
| Front Temperature | 410 to 440 | °F |
| Processing (Melt) Temp | 440 to 460 | °F |
| Mold Temperature | 120 to 140 | °F |

Notes

¹ Typical properties: these are not to be construed as specifications.

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