



Technical Data Sheet

Typical Applications

- Used for the production of injection molding products requiring a good resistance to long term heat exposure, especially for battery cases, automotive components and large containers
- Automotive compounding applications

Key Characteristics

- Medium fluidity
- Good balance of impact and stiffness
- Low warpage tendency
- Good heat aging resistance
- Good dimensional stability
- Formulated with a highly effective heat stabilization package
- Food contact approval for specific applications (*refer to NATPET*)

| Resin | Conditions | Method | Value | Unit |
|-----------------------------|--------------------------|----------------|----------|-------------------|
| Density | 23°C | ISO 1183 | 0.900 | g/cm ³ |
| Melt Flow Rate (MFR) | 230°C/2.16 kg | ASTM D 1238-13 | 7 | g/10-min |
| Mechanical | | | | |
| Flexural Modulus | | ISO 178 | 1,100 | MPa |
| Tensile Modulus | 1-mm/min | ISO 527 | 1,200 | MPa |
| Tensile Stress at Yield | 50-mm/min | ISO 527 | 27 | MPa |
| Tensile Strain at Break | 50-mm/min | ISO 527 | > 50 | % |
| Tensile Strain at Yield | 50-mm/min | ISO 527 | 7 | % |
| | 23 °C, Type 1, Edgewise | ISO 179 | No Break | |
| Charpy Un-notched | 0 °C, Type 1, Edgewise | ISO 179 | 140 | KJ/m ² |
| | -20 °C, Type1, Edgewise | ISO 179 | 80 | KJ/m ² |
| | 23 °C, Type 1, Edgewise | ISO 179 | 7.5 | KJ/m ² |
| Charpy Notched | 0 °C, Type 1, Edgewise | ISO 179 | 4.5 | KJ/m ² |
| | -20 °C, Type 1, Edgewise | ISO 179 | 3.5 | KJ/m ² |
| Izod Notched | 23°C | ISO 180 | 5.4 | kJ/m ² |
| Thermal | | | | |
| Heat Deflection Temperature | 0.45 MPa Un-annealed | ISO 75B | 70 | °C |
| Vicat Softening Temperature | A50 (50°C/h 10N) | ISO 306 | 148 | °C |
| Optical | | | | |
| Haze | 1.0 mm | ASTM D 1003 | 6.0 | % |

Technical information

Note: The above are typical data representing the product; not to be construed as analysis certificate or specifications.

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Special Features

- Amazing result on battery cases articles
- Broad processing window, excellent flowability at optimized molding temperatures

Processing Conditions

Average extruder temperature range may be kept between 190 - 210°C.

Food Regulation

This product is defined as a preparation under specific food contact regulation. Detailed information will be provided in a relevant document "Regulatory Compliances Product Declaration" upon request.

Storage and Handling

Polypropylene resin should be stored to prevent a direct exposure to sunlight and heat. The Product estimated shelf life is one year starting from production date, adequate humidity below 80%, and temperature below 40°C. Customers might not fully follow the optimal storage condition, hence the shelf life recommended at customer site is six months only as received. Please refer to "**Material Safety Datasheet**" (MSDS) for handling and storage information.

Documents

Legal documents, MSDS, trial reports and machine builder certificate are available on request. Please send your request to the following e-mail: pa@natpet.com