

Technical Data Sheet

Typical Applications

- Used for the production of consumer goods such as food containers, house wares, toys and garden furniture
- Components for appliances and parts for the automotive industry

Key Characteristics

- Good flow properties, High Stiffness, easy processing
- Food contact approval for specific applications (refer to *NATPET*)

Processing Methods

- Injection Molding

| 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 | 9 | g/10-min |
| Mechanical | | | | |
| Flexural Modulus | | ISO 178 | 1,500 | MPa |
| Tensile Stress at Break | 50-mm/min | ISO 527 | 24 | MPa |
| Tensile Stress at Yield | 50-mm/min | ISO 527 | 34 | MPa |
| Tensile Strain at Break | 50-mm/min | ISO 527 | > 50 | % |
| Tensile Strain at Yield | 50-mm/min | ISO 527 | 13 | % |
| Izod <small>Notched</small> | 23 °C | ISO 180 | 4.4 | kJ/m ² |
| Thermal | | | | |
| Heat Deflection Temperature | 0.45 MPa Un-annealed | ISO 75B | 115 | °C |
| Vicat Softening Temperature | A50 (50 °C/h 10N) | ISO 306 | 155 | °C |
| Additional | | | | |

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

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NATPET would like to advise its customers and other users that unless specifically stated the supplied products should not be used for applications in medical and/or pharmaceutical sectors.

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Special Features

Shows broad processing window while providing good mechanical properties

Processing Conditions

Average extruder temperature range may be kept between 240 – 260 °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 and RCPD are available on request. Please send your request to the following e-mail: pa@natpet.com or visit our website : WWW.natpet.com