

Technical Data Sheet

Typical Applications

- HOMO polymer reactor grade suitable for extrusion application
- Potential grade for spun-bond application and non-woven products
- Suitable for bulk continuous filaments (BCF), continuous filaments (CF), Partially Oriented Yarn (POY), High Tenacity Yarn (HTY), and staple fiber
- It can be used for diapers, hygiene feminine pads, and carpet applications

Key Characteristics

- Formulated with Phenol-Free anti-gas fading and UV stabilizing Package.
- Suitable for Reifenhauser machines Reicofil - 3&4

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	35	g/10-min
Mechanical				
Flexural Modulus		ISO 178	1403	MPa
Tensile modulus		ISO 527-1,2	1427	MPa
Tensile Stress at Break	50-mm/min	ISO 527	34	MPa
Tensile Strain at Break	50-mm/min	ISO 527	> 30	%
Tensile Strain at Yield	50-mm/min	ISO 527	22	%
Izod <small>Notched</small>	23°C	ISO 180	4.5	kJ/m ²
Thermal				
Heat Deflection Temperature	0.45 MPa Un-annealed	ISO 75B	110	°C
Vicat Softening Temperature	A50 (50°C/h 10N)	ISO 306	155	°C

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

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Special Features

- **Non-Woven application**
 - Suitable for hygiene feminine pads and diapers
 - The grade performed excellent on Reicofil machine
- **Woven application**
 - Shows broad processing window while providing excellent mechanical properties
 - Suitable for Neumag S⁺ machine providing high quality products

Processing Conditions

Average extruder temperature range may be kept between 220-235°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

Specific 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