

# 100-NB03

## Product Technical Information

Polypropylene - Homopolymer

**100-NB03** is a polypropylene grade intended for sheet extrusion and thermoforming applications requiring improved transparency and higher stiffness than conventional polypropylene. It is nucleated and clarified but does not contain any antistatic agent. It offers a good balance between easy flow and mechanical properties and features very good optical properties and good thermal stability of end products.

## Benefits & Features

- Very good optical properties
- High stiffness of end products
- Moderate foaming (beer cups)
- Good thermal stability
- Easy processing in both forming and cutting

## Applications

- Beer cups
- Transparent trays for biscuits, fruit and vegetables
- Containers for various food products

| Properties                                     | Conditions      | Test Methods | Values | Units             |
|--|-----------------|--------------|--------|-------------------|
| <b>Rheological</b>                             |                 |              |        |                   |
| Melt Flow Rate                                 | 230°C / 2.16 kg | ISO 1133-1   | 3      | g/10min           |
| <b>Mechanical</b>                              |                 |              |        |                   |
| Flexural Modulus                               | 23°C            | ISO 178      | 1800   | MPa               |
| Izod Impact Strength, notched                  | 23°C, A         | ISO 180      | 3      | kJ/m <sup>2</sup> |
| Tensile Strength at yield                      |                 | ISO 527-1,-2 | 39     | MPa               |
| Vicat Softening Temperature                    | Method A (10N)  | ISO 306      | 156    | °C                |
| <b>Thermal</b>                                 |                 |              |        |                   |
| Melting Point                                  |                 | ASTM D3418   | 165    | °C                |
| Crystallisation Temperature                    |                 | ASTM D3418   | 129    | °C                |
| Data should not be used for specification work |                 |              |        |                   |



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## Storage

The product should be stored in a dry and dust free environment at temperature below 50°C. Exposure to direct sunlight should be avoided as this may lead to product deterioration.

It is advised to process the product within maximum one year after delivery.

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## Regulatory Information

The product and uses described herein may be subject to specific requirements or limitations for use in certain applications like food contact, drinking water or medical devices. Further information may be obtained from the website [www.ineos.com](http://www.ineos.com) where a specific Regulatory Certificate is available for each grade under the heading "SDS & Regulatory Certificate".

Unless specifically indicated, the product mentioned herein is not suitable for applications in the medical or pharmaceutical sectors.

## Health and Safety Information

The product described herein may require precautions in handling. The available product health and safety information for this material is contained in the Safety Data Sheet (SDS) that may be obtained from the website [www.ineos.com](http://www.ineos.com). Before using any material, a customer is advised to consult the SDS for the product under consideration for use.

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