

# ELTEX<sup>®</sup> LGB263N2070

## Product Technical Information

High Density Polyethylene – Milk blow moulding resins

### Benefits & Features

**ELTEX<sup>®</sup> LGB263N2070** high density polyethylene is a white compound manufactured by INEOS O&P Europe. It contains 5% titanium dioxide and is intended for the production of ESL milk bottles and co-extrusion of bottles for the packaging of UHT sterilized milk

The resin is specifically designed for 1-, 3- or 6- layer bottles.

It guarantees the preservation of the organoleptic properties of milk and has the following essential properties:

- High density, ensuring good rigidity of finished products
- A melt viscosity which ensures easy processing
- A very low odour level

| Properties                                | Conditions                                   | Test Methods      | Values | Units             |
|---|--|-------------------|--------|-------------------|
| <b>Rheological</b>                        |  |                   |        |                   |
| Melt Flow Rate                            | 190°C/2.16kg                                 | ISO 1133-1        | 0.7    | g/10min           |
| Apparent dynamic viscosity <sup>(2)</sup> | 190°C and 100 s <sup>-1</sup>                | INEOS Test Method | 1200   | Pa.s              |
| <b>Physical</b>                           |  |                   |        |                   |
| Density ISO 1872-1 <sup>(1)</sup>         | 23°C   | ISO 1183-1        | 990    | kg/m <sup>3</sup> |
| <b>Mechanical</b>                         |  |                   |        |                   |
| Tensile strength at yield                 | 23°C, 50mm/min                               | ISO 527-2         | 30     | MPa               |
| Tensile Modulus                           | 23°C, 1 mm/min                               | ISO 527-2         | 1250   | MPa               |
| Charpy Impact Strength, notched FNCT      | 23°C   | ISO 179-1/1eA     | 8.5    | kJ/m <sup>2</sup> |
| (full notched creep test)                 | 40°C, 6 N/mm <sup>2</sup><br>2% Arkopal N100 | ISO 16770         | 10     | h                 |
| <b>Thermal</b>                            |  |                   |        |                   |
| Melting Temperature                       | DSC 2nd heating<br>10°C/min                  | ISO 11357-3       | 134.0  | °C                |
| <b>Other</b>                              |  |                   |        |                   |
| Molecular weight distribution             |  | INEOS Test Method | Medium | -                 |

### Data should not be used for specification work

- (1) Compression-moulded discs, cooled at the rate of 15°C per minute
- (2) Apparent dynamic viscosity of the material extruded at 190°C through a 1.0 mm diameter and 15 mm long die, at apparent shear rate 100 s<sup>-1</sup>



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## Compliance to Regulations

**ELTEX<sup>®</sup> LGB263N2070** meets EU and FDA regulations governing the approval of materials used in the manufacture of packaging which may come into contact with food products. INEOS will be happy to supply customers with certificates of conformity to the various national legislations.

## 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.

### Exclusion of Liability

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In addition data and numerical results howsoever provided to you by INEOS O&P Europe are given in good faith and are general in nature. Data and numerical results are not and shall not be regarded as specifications and as such INEOS O&P Europe is not, to the maximum extent permitted by law, liable for any action that you take as a result of relying on such data and results or for any loss or damage, including any consequential loss, suffered by you as a result of taking such action.

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