

# Eltex® B4020LGN1963

High Density Polyethylene

INEOS Olefins & Polymers Europe

## Technical Data

### Product Description

Eltex® B4020LGN1963 high-density polyethylene is a copolymer manufactured by INEOS Polyolefins using its supported catalyst process. It is a granular resin used for high-speed blow moulding of bottles. Its high purity makes it suitable for the packaging of both pasteurised and sterilized milk (in bottle sterilization).

Eltex® B4020LG/35 contains 1% titanium dioxide

Eltex® B4020LG/34 contains 4.5 % titanium dioxide and is intended for the co extrusion of bottles for the packaging of sterilized or UHT milk.

The resins guarantee the preservation of the organoleptical properties of milk and have the following essential properties:

- A very low odour level
- Good impact resistance
- Good heat resistance
- Good stress crack resistance

They meet EU and FDA regulations governing the approval of materials used in the manufacture of packaging which may come into contact with food products. INEOS Polyolefins will be happy to supply customers with certificates of conformity to the various national legislations.

### General

|                           |                                                                      |                                                                                |                                                                            |
|---------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Material Status           | • Commercial: Active                                                 |                                                                                |                                                                            |
| Literature <sup>1</sup>   | • <a href="#">Technical Datasheet (English)</a>                      |                                                                                |                                                                            |
| Search for UL Yellow Card | • <a href="#">INEOS Olefins &amp; Polymers Europe</a>                |                                                                                |                                                                            |
| Availability              | • Europe                                                             |                                                                                |                                                                            |
| Features                  | • Copolymer<br>• Food Contact Acceptable<br>• Good Impact Resistance | • High Density<br>• High ESCR (Stress Crack Resist.)<br>• High Heat Resistance | • High Purity<br>• Low to No Odor<br>• Med.-Wide Molecular Weight Distrib. |
| Uses                      | • Blow Molding Applications                                          | • Bottles                                                                      |                                                                            |
| Agency Ratings            | • EU Food Contact, Unspecified Rating                                | • FDA Food Contact, Unspecified Rating                                         |                                                                            |
| RoHS Compliance           | • Contact Manufacturer                                               |                                                                                |                                                                            |
| Forms                     | • Granules                                                           |                                                                                |                                                                            |
| Processing Method         | • Blow Molding                                                       |                                                                                |                                                                            |

| Physical                                  | Nominal Value Unit | Test Method     |
|-------------------------------------------|--------------------|-----------------|
| Density                                   | 0.952 g/cm³        | ISO 1183/A      |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 1.8 g/10 min       | ISO 1133        |
| Viscosity <sup>3</sup> (190°C)            | 1100000 mPa·s      | Internal Method |

### Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

<sup>3</sup> 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