

# ELTEX<sup>®</sup> B4020LGN1963

## ELTEX<sup>®</sup> B4020LG/34

### Product Technical Information

High Density Polyethylene – Milk blow moulding resins

### Benefits & Features

**ELTEX<sup>®</sup> B4020LGN1963** high density polyethylene is a copolymer manufactured by INEOS O&P Europe 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 pasteurized and sterilized milk (in bottle sterilization).

**ELTEX<sup>®</sup> 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 organoleptic properties of milk and have the following essential properties:

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

Properties	Conditions	Test Methods	Values		Units
			B4020LGN1963	B4020LG/34	
<b>Rheological</b>					
Melt Flow Rate	190°C/2.16Kg	ISO 1133-1	1.8	1.8	g/10min
Apparent dynamic viscosity *	190°C and 100 s <sup>-1</sup>	INEOS	1100	1100	Pa.s
<b>Physical</b>					
Density	23°C	ISO 1183-1	952	985	kg/m <sup>3</sup>
<b>Mechanical</b>					
Tensile strength at yield	23°C, 50mm/min	ISO 527-2	27	27	MPa
Tensile Modulus	23°C, 1 mm/min	ISO 527-2	1000	1000	MPa
Charpy Impact Strength, notched	23°C	ISO 179-1/1eA	6.5	6.5	kJ/m <sup>2</sup>
FNCT (full notched creep test)	40°C, 6 N/mm <sup>2</sup> 2% Arkopal N100	ISO 16770	14	14	h
<b>Thermal</b>					
Melting Temperature	DSC 2nd heating 10°C/min	ISO 11357-3	132.0	132.0	°C
<b>Other</b>					
Molecular weight distribution		INEOS	medium	medium	-

**Data should not be used for specification work**

\* Apparent dynamic viscosity of the material extruded at 190°C through a 1.0 mm diameter and 15 mm long die



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## Compliance to Regulations

ELTEX<sup>®</sup> B4020LGN1963 & ELTEX<sup>®</sup> B4020LG/34 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 O&P Europe 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.