ELTEX® B4020LGN1963
ELTEX® B4020LG/34

Product Technical Information

High Density Polyethylene – Milk blow moulding resins

Benefits & Features

ELTEX® 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® 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	
Rheological					
Melt Flow Rate	190°C/2.16Kg	ISO 1133-1	1.8	1.8	g/10min
Apparent dynamic viscosity *	190°C and 100 s^{-1}	INEOS	1100	1100	Pa.s
Physical					
Density	23°C	ISO 1183-1	952	985	kg/m³
Mechanical					
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/m²
FNCT (full notched creep test)	40°C, 6 N/mm² 2% Arkopal N100	ISO 16770	14	14	h
Thermal					
Melting Temperature	DSC 2nd heating 10°C/min	ISO 11357-3	132.0	132.0	°C
Other					
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® B4020LGN1963 & **ELTEX® 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.

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 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. Before using any material, a customer is advised to consult the SDS for the product under consideration for use.

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