Manufacturer website: https://www.ineos.com/businesses/ineos-olefins-polymers/

ELTEX® B2020LG/34

Product Technical Information

ELTEX® B2020LG/34 is a High Density Polyethylene – Milk blow moulding resin.

Benefits & Features

- A very low odour level guaranteeing the organoleptic properties of milk
- Good rigidity
- Good impact strength
- Easy processing

Applications

ELTEX® B2020LG/34 is a white copolymer, it contains 4.5 % titanium dioxide and is intended for the co-extrusion of bottles for the packaging of UHT sterilized milk.
The resin is specifically designed for 3- or 6- layer bottles

Properties	Conditions	Test Methods	Values	Units
Rheological				
Melt Flow Rate	190°C/2.16kg	ISO 1133-1	1.8	g/10min
Apparent dynamic viscosity(2)	190°C and 100 s-1	INEOS Test Method	1100	Pa.s
Physical				
Density ISO 1872-1(1)	23°C	ISO 1183-1	990	kg/m³
Inherent viscosity in tetralene(3)	160°C	INEOS Test Method	0.16	l/g
Mechanical				
Tensile strength at yield	23°C, 50mm/min	ISO 527-2	29	MPa
Tensile Modulus	23°C, 1 mm/min	ISO 527-2	1200	MPa
Charpy Impact Strength, notched	23°C	ISO 179-1/1eA	6.5	kJ/m²
FNCT (full notched creep test)	40°C, 6 N/mm² 2% Arkopal N100	ISO 16770	8	h
Thermal				
Melting Temperature	DSC 2nd heating 10°C/min	ISO 11357-3	133.5	°C
Other				
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^{-1}
(3) Concentration of the solutions: 1 g/l

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Compliance to Regulations

ELTEX® B2020LG/34 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.

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.

Exclusion of Liability

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