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

# ELTEX® MED PH23T630

## Product Technical Information

Low Density Polyethylene for Healthcare applications

## Benefits & Features

**ELTEX® MED PH23T630** is a LD-polyethylene for injection moulding having excellent flow properties allowing short cycle time or easy filling of long flow-paths. The moulded article is characterized by low degree of guilt-in stress & good flexibility

**ELTEX® MED PH23T630** is produced according to good manufacturing practice and is additive-free.

## Applications

**ELTEX® MED PH23T630** is recommended for injection moulding of:

- Flexible lids
- Caps and closures
- Pharmaceutical & diagnostic packaging

**ELTEX® MED PH23T630** can be sterilized with Eto-treatment or with Gamma radiation up till 50 kGy

| Properties | Conditions | Test Methods | Values | Units |
|---|---|---|---|---|
| **Physical** | | | | |
| Density | | ISO1183-1 & ISO 1872-1 | 923 | kg/m³ |
| Melt Flow Rate | 190°C/2.16 kg | ISO 1133-1 | 22 | g/10 min |
| **Mechanical** | | | | |
| Tensile Strain at Break | 50 mm/min | ISO 527-1,-2 | 130 | % |
| Tensile Modulus | 1 mm/min | ISO 527-1,-2 | 180 | MPa |
| Tensile Impact Strength, notched | | ISO 8256/A1 | 160 | kJ/m² |
| Hardness Shore D* | | ISO 868 | 49 | - |
| **Thermal** | | | | |
| Heat Deflection Temperature | 0.45 MPa | ISO 75-2 | 49 | °C |
| Vicat Softening Temperature | 10 N | ISO306/A50 | 92 | °C |

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

* Values determined on injection moulded specimens acc. to ISO 1872-2

## Compliance to Regulations on Medical use

**ELTEX® MED PH23T630** complies with the European Pharmacopoeia – Monograph 3.1.4 and meets the requirements of the USP29, <88> guideline concerning the biological reactivity test in vivo (so-called USP Class VI)

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# ELTEX® MED PH23T630

## Processing guidelines

| | |
|---|---|
| Melt temperature | 180-230°C |
| Injection speed | Highest possible |
| Hold pressure | Just high enough to avoid sink marks |
| Mould temperature | 10-40°C |
| Shrinkage | 1.5-2% depending on wall thickness and moulding parameters |

## 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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