



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 built-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/m ³
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/m ²
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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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.