

# ELTEX® PF0110XA

## Provisional Product Technical Information

ELTEX® PF0110XA is a metallocene polyethylene plastomer resin produced in Europe

## Benefits & Features

ELTEX® PF0110XA is a polyethylene copolymer containing hexene-1 as comonomer and produced with a metallocene catalyst. It offers the following properties:

- Extremely low sealing initiation temperature and excellent Hot Tack strength
- Unrivalled impact strength and puncture resistance
- Very high gloss and transparency
- Softness and flexibility
- Excellent blending compatibility with other polyolefin grades

## Applications

ELTEX® PF0110XA has been developed for use in various technical applications where its low crystallinity delivers superior sealing performance, enhanced toughness, better softness or higher elasticity.

For instance, ELTEX® PF0110XA can be used as sealant material in cast film compositions or extrusion coated structures for liquid food packaging.

The low viscosity of ELTEX® PF0110XA can also be valued in masterbatching and compounding operations like compounds for wire& cable or other highly concentrated mineral filler compositions.

The very low density and the unique microstructure of ELTEX® PF0110XA are also valuable as toughness enhancer in various applications, including polypropylene moulding.

ELTEX® PF0110XA can be used pure or as a blending partner with other polyolefins. In addition, ELTEX® PF0110XA offers easy extrudability.

We recommend that you consult your INEOS technical representative for further advice on the use of ELTEX® PF0110XA.

Properties	Conditions	Test Methods	Values	Units
<b>Rheological</b>				
Melt Flow Rate	190°C/2.16Kg	ISO 1133-1	10	g/10min
<b>Physical</b>				
Density ISO 1872-1	23°C	ISO 1183-2	902	kg/m <sup>3</sup>
<b>Mechanical*</b>				
Tensile Modulus		ISO 527-2	135	MPa
Tensile strength at Break		ISO 527-2	No break	MPa
Flexural Modulus	23°C	ISO 178	120	MPa
Izod Impact Strength, notched	-20°C	ISO 180/A	No break	kJ/m <sup>2</sup>
<b>Optical</b>				
Haze	70 µm	ASTM D 1003	1	%
Gloss	45°	ASTM D 2457	92	%



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## Thermal

Peaks melting temperature (DSC)		INEOS Test Method	87 – 110	°C
Vicat Softening temperature	10N	ISO306/A50	75	°C

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## Additives

Antioxidants

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

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\* Measurements made on compression moulded plaques

## Processing guidelines

**ELTEX<sup>®</sup> PF0110XA** should be processed on machinery purpose designed for LLDPE. Melt temperatures in the range 190 - 250°C can be used.

## 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.

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## 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](http://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](http://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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