



ELTEX® PF0110AZ

Provisional Product Technical Information

ELTEX® PF0110AZ is an additive free metallocene polyethylene plastomer resin produced in Europe.

Benefits & Features

ELTEX® PF0110AZ 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® PF0110AZ 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® PF0110AZ can be used as sealant material in cast film compositions or extrusion coated structures.

ELTEX® PF0110AZ can be used pure or as a blending partner with other polyolefins. In addition, ELTEX® PF0110AZ offers easy extrudability.

We recommend that you consult your INEOS technical representative for further advice on the use of ELTEX® PF0110AZ.

Properties	Conditions	Test Methods	Values	Units
Rheological				
Melt Flow Rate	190°C/2.16Kg	ISO 1133-1	10	g/10min
Physical				
Density ISO 1872-1	23°C	ISO 1183-2	902	kg/m ³
Mechanical*				
Tensile Modulus		ISO 527-2	135	MPa
Tensile Strength at Yield	23°C	ISO 527-1,-2	6	MPa
Tensile strain at Yield		ISO 527-2	22	%
Tensile strength at Break		ISO 527-2	No break	MPa
Tensile strain at Break		ISO 527-2	>600	%
Flexural Modulus	23°C	ISO 178	120	MPa
Izod Impact Strength, notched	-20°C	ISO 180/A	No break	kJ/m ²



ELTEX[®] PF0110AZ

Optical*

Haze	70 μm	ASTM D 1003	1	%
Gloss	45°	ASTM D 2457	92	%

Thermal

Peaks melting temperature (DSC)	INEOS Test Method	87 – 110	°C
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Data should not be used for specification work

* Measurements made on compression moulded plaques

Processing guidelines

ELTEX[®] PF0110AZ should be processed on machinery purpose designed for LLDPE. Melt temperatures in the range 190 - 250°C can be used.

For extrusion coating it is recommended to avoid extrusion temperatures above 280°C, not to jeopardize the sealing properties.

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.