



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 |
|-------------------------------|--------------|--------------|----------|-------------------|
| 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 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 ² |
| Optical | | | | |
| Haze | 70 µm | ASTM D 1003 | 1 | % |
| Gloss | 45° | ASTM D 2457 | 92 | % |



ELTEX[®] PF0110XA

Thermal

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

Additives

Antioxidants

Data should not be used for specification work

* Measurements made on compression moulded plaques

Processing guidelines

ELTEX[®] 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.