



# ELTEX<sup>®</sup> PF0102XA

## Product Technical Information

ELTEX<sup>®</sup> PF0102XA is a metallocene polyethylene plastomer resin produced in Europe

## Benefits & Features

ELTEX<sup>®</sup> PF0102XA 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<sup>®</sup> PF0102XA has been developed for use in highly technical blown and cast film like food packaging, lamination and co-extrusion applications where superior mechanical and sealing performance is required.

ELTEX<sup>®</sup> PF0102XA can be used pure or as a blending partner with other polyolefins. In addition, ELTEX<sup>®</sup> PF0102XA offers easy extrudability.

ELTEX<sup>®</sup> PF0102XA is also recommended as a softening agent in film and non-film compositions requiring softness or flexibility like compounds for wire and cable applications. The very low density and the unique microstructure of ELTEX<sup>®</sup> PF0102XA are also valuable as toughness enhancer in various applications, including polypropylene moulding.

We recommend that you consult your INEOS technical representative for further advice on the use of ELTEX<sup>®</sup> PF0102XA.

| Properties                      | Conditions   | Test Methods      | Values  | Units             |
|---------------------------------|--------------|-------------------|---------|-------------------|
| <b>Rheological</b>              |              |                   |         |                   |
| Melt Flow Rate                  | 190°C/2.16Kg | ISO 1133-1        | 1.9     | g/10min           |
| <b>Physical</b>                 |              |                   |         |                   |
| Density ISO 17855-2             | 23°C         | ISO 1183-2        | 902     | kg/m <sup>3</sup> |
| <b>Mechanical*</b>              |              |                   |         |                   |
| Puncture Resistance, energy     |              | INEOS Test Method | 14      | J                 |
| Tensile strength at break MD/TD |              | ISO 527-3         | 56/31   | MPa               |
| Tensile strain at break MD/TD   |              | ISO 527-3         | 570/530 | %                 |
| 1% Secant modulus MD/TD         |              | ISO 527-3         | 60/60   | MPa               |
| Elmendorf tear strength MD/TD   |              | ASTM D 1922       | 170/240 | g/25mm            |
| <b>Optical*</b>                 |              |                   |         |                   |
| Haze                            | 70 µm        | ASTM D 1003       | 2       | %                 |
| Gloss                           | 45°          | ASTM D 2457       | 94      | %                 |



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## Thermal

|                                 |     |                   |          |    |
|---------------------------------|-----|-------------------|----------|----|
| Peaks melting temperature (DSC) |     | INEOS Test Method | 85 – 111 | °C |
| Vicat Softening temperature     | 10N | ISO306/A50        | 79       | °C |

## Additives

Antioxidants

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

\* Cast film 70 µm film, 230°C melt temperature – MD = machine direction, TD = transverse direction

## Processing guidelines

**ELTEX<sup>®</sup> PF0102XA** 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.

## 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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