



# Eltex<sup>®</sup> PF6212AA

## Product Technical Information

**Eltex<sup>®</sup> PF6212AA** is a metallocene LL-DPE grade produced in Europe

### Benefits & Features

**Eltex<sup>®</sup> PF6212AA** is a polyethylene copolymer containing hexene-1 as the comonomer produced with a metallocene catalyst. It offers the following properties:

- Extremely high impact strength
- Excellent optical properties
- Very good bubble stability and extrudability
- Low temperature sealing characteristics

### Applications

**Eltex<sup>®</sup> PF6212AA** has been developed for use in food packaging and other thin film applications where excellent mechanical and optical performance is required. For more demanding applications such as lamination and temporary surface protection, we recommend to use **Eltex<sup>®</sup> PF6212LA**

If corona treatment is necessary, the level should normally be in the range 38-48 mN/m.

| Properties                    | Conditions   | Test Methods | Values    | Units             |
|-------------------------------|--------------|--------------|-----------|-------------------|
| <b>Rheological</b>            |              |              |           |                   |
| Melt Flow Rate                | 190°C/2.16Kg | ISO 1133-1   | 1.3       | g/10min           |
| <b>Physical</b>               |              |              |           |                   |
| Density ISO 1872-1            | 23°C         | ISO 1183-2   | 919       | kg/m <sup>3</sup> |
| <b>Mechanical*</b>            |              |              |           |                   |
| Dart drop impact              | Method A     | ASTM D 1709  | >1000     | g                 |
| Tensile strength at Yield     | MD/TD**      | ISO 527-3    | 9 / 10    | MPa               |
| Tensile strength at break     | MD/TD**      | ISO 527-3    | 65 / 60   | MPa               |
| Tensile strain at break       | MD/TD**      | ISO 527-3    | 550 / 670 | %                 |
| 1% Secant modulus             | MD/TD**      | ISO 527-3    | 180 / 200 | MPa               |
| Elmendorf tear strength       | MD/TD**      | ASTM D 1922  | 200 / 440 | g/25 µm           |
| <b>Optical*</b>               |              |              |           |                   |
| Haze                          |              | ASTM D 1003  | 7         | %                 |
| Gloss                         | 45°          | ASTM D 2457  | 65        | %                 |
| <b>Thermal</b>                |              |              |           |                   |
| Peaks DSC melting temperature | 2nd heating  | ASTM D 3418  | 105 - 118 | °C                |
| <b>Additives</b>              |              |              |           |                   |
| Antioxidants                  |              |              |           |                   |

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

\* 25 µm film 2.5:1 blow-up ratio, 200°C melt temperature - \*\* MD = machine direction, TD = transverse direction

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## Processing guidelines

**Eltex<sup>®</sup> PF6212AA** in lean blends can be processed on most standard extrusion equipment. Optimisation of conditions may be necessary, depending on the exact blend used.

**Eltex<sup>®</sup> PF6212AA** rich film formulations are often processed on modified LDPE machinery, but for the best performance the use of purposely designed LLDPE machinery is recommended. Particular attention should be paid to maintaining a low melt temperature, and an efficient bubble cooling system should be employed. The recommended melt temperature range is 190 - 230°C.

## 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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