HK:+852-69575415 China GuangDong:+13538586433 ShangHai:+18816996168

# Eltex® PF6912AA

## Product Technical Information

**Eltex® PF6912AA** is a metallocene LLDPE resin produced in Europe

## Benefits & Features

**Eltex® PF6912AA** is a polyethylene copolymer containing hexene-1 as the comonomer produced with a metallocene catalyst. It offers the following properties:

- High stiffness
- Superior creep resistance
- Excellent balance between impact resistance and rigidity
- Very good bubble stability and easy extrudability during blown film extrusion
- Good optical properties
- Very low blocking

**Eltex® PF6912AA** is formulated with antioxidants.

## Applications

**Eltex® PF6912AA** has been developed for use in coextruded blown film structures particularly suitable for food packaging, hygiene or industrial applications. Its unique balance between stiffness, toughness and optical properties makes it the material of choice for the most advanced film compositions with an optimum thickness reduction.

| Properties | Conditions | Test Methods | Values | Units |
|---|---|---|---|---|
| **Rheological** | | | | |
| Melt Flow Rate | 190°C/2.16Kg | ISO 1133-1 | 1.2 | g/10min |
| **Physical** | | | | |
| Density ISO 1872-1 | 23°C | ISO 1183-2 | 936 | kg/m³ |
| **Mechanical*** | | | | |
| Dart drop impact Method A | | ASTM D 1709 | 110 | g |
| Tensile strength at Yield MD/TD | | ISO 527-3 | 19 / 20 | MPa |
| Tensile strength at break MD/TD | | ISO 527-3 | 60 / 51 | MPa |
| Tensile strain at break MD/TD | | ISO 527-3 | 670 / 770 | % |
| 1% Secant modulus MD/TD | | ISO 527-3 | 400 / 450 | MPa |
| Elmendorf tear strength MD/TD | | ASTM D 1922 | 50 / 490 | g/25 µm |
| **Optical** | | | | |
| Haze | | ASTM D 1003 | 11 | % |
| Gloss | 45° | ASTM D 2457 | 57 | ‰ |
| **Additives** | | | | |
| Other additives: antioxidants | | | | |

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

* 25 µm film 2.5:1 blow-up ratio, 220°C melt temperature - ** MD = machine direction, TD = transverse direction

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## Processing guidelines

**Eltex® PF6912AA** in lean blends can be processed on most standard extrusion equipment. Optimisation of conditions may be necessary, depending on the exact blend used.
**Eltex® PF6912AA** 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.
For more details, please refer to the metallocene processing guide.

## 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.