



Eltex[®] PF6130LA

Product Technical Information

Applications

Eltex[®] PF6130LA is particularly suitable for high performance cast stretch film applications, in both monolayer and co-extruded structures. It is designed for applications which require a very low level of gels. It also can be used for the production of artificial grass monofilaments.

Benefits and Features

Eltex[®] PF6130LA is a polyethylene copolymer containing hexene-1 as the comonomer produced with a metallocene catalyst.

Eltex[®] PF6130LA offers the following properties:

- High stretchability in cast film applications
- High holding force
- Good web stability during extrusion
- High output rates
- Excellent overall film appearance and surface finish
- Low level of gels
- Very high puncture resistance

We recommend that you consult your INEOS technical representative for further advice on the use of Eltex[®] PF6130LA.

| Properties | | Test Method | Value | Units |
|-------------------------|----------|----------------------------|---------|-------------------|
| Physical | | | | |
| Melt flow rate | | ISO 1133-1 | 3.5 | g/10 min |
| Conventional Density | | ISO 1183-1 & ISO 1872-1 | 918 | kg/m ³ |
| Additives: antioxidants | | | | |
| Film* | | | | |
| Dart drop impact | Method A | ASTM D1709 | 600 | g |
| Puncture resistance | | INEOS method | 28 | Ncm/μ |
| Tensile stress @ break | MD/TD | ISO 1184 | 40/20 | MPa |
| Elongation @ break | MD/TD | ISO 1184 | 300/400 | % |
| 1% Secant modulus | MD/TD | ISO 1184 | 115/120 | MPa |
| Elmendorf tear strength | MD/TD | ASTM D1922 | 260/430 | g/25 μm |
| Haze | | ASTM D1003 | 1 | % |
| Gloss (45°) | | ASTM D2457 | 93 | % |

- Data should not be used for specification work

* 20 μm film, 230°C melt temperature - MD = machine direction, TD = transverse direction



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Extrusion conditions

Eltex[®] PF6130LA should be processed on machinery purpose designed for LLDPE. The product is well stabilized, melt temperatures in the range 230 - 280°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.