Manufacturer website: https://www.ineos.com/businesses/ineos-olefins-polymers/

Eltex® PF6140AA

Product Technical Information

Applications

Eltex® PF6140AA is particularly suitable for high performance cast stretch film applications, in both monolayer and co-extruded structures.

It also can be used for the production of artificial grass monofilaments.

Benefits and Features

Eltex® PF6140AA is a polyethylene copolymer containing hexene-1 as the comonomer produced with a metallocene catalyst.

Eltex® PF6140AA 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
- Very high puncture resistance

We recommend that you consult your INEOS technical representative for further advice on the use of Eltex® PF6140AA.

Properties		Test Method	Value	Units
Physical				
Melt flow rate				
Condition 4		ISO 1133-1	4.5	g/10 min
Conventional Density		ISO 1872-1	918	kg/m³
Additives: antioxidants				
Film*				
Dart drop impact	Method A	ASTM D1709	520	g
Puncture resistance		INEOS method	27	Ncm/µ
Tensile stress @ break	MD/TD	ISO 1184	30/20	MPa
Elongation @ break	MD/TD	ISO 1184	280/460	%
1% Secant modulus	MD/TD	ISO 1184	125/120	MPa
Elmendorf tear strength	MD/TD	ASTM D1922	310/450	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® PF6140AA 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.

Regulatory Information

The product and uses described herein may require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, send an email to psnohreg@ineos.com. Unless specifically indicated, the products mentioned herein are not suitable for applications in the medical or pharmaceutical sector.

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 Material Safety Data Sheet (MSDS) that may be obtained from the website www.ineospolyolefins.com . Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.

Exclusion of Liability

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