



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/m ³
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.