



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/m ³
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	% ₀₀

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.