



Eltex® PF6012AA

Provisional Product Technical Information

Eltex® PF6012AA is a metallocene LLDPE resin produced in Europe.

Applications

Eltex® PF6012AA has been developed for use in highly technical film like food packaging, lamination and co-extrusion applications where superior mechanical and sealing performance is required. In addition Eltex® PF6012AA offers easy extrudability.

Eltex® PF6012AA is particularly suitable for multilayer film applications where it can be used neat or as a blending partner with LLDPE or LDPE in sealing layers.

Benefits and Features

Eltex® PF6012AA is a polyethylene copolymer containing hexene-1 as the comonomer produced with a metallocene catalyst. It offers the following properties:

- Very low sealing initiation temperature
- Excellent Hot Tack strength, particularly advantageous for HFFS packaging lines
- Unrivalled impact strength and puncture resistance
- Very good bubble stability and extrudability similar to the best LLDPE blown film grades
- Properties ideally balanced in machine and transverse directions
- Excellent blending compatibility with other LLDPE and LDPE grades

Properties	Conditions	Test Methods	Values	Units
Rheological				
Melt Flow Rate	190°C/2.16Kg	ISO 1133-1	1.3	g/10min
Physical				
Density ISO 1872-1	23°C	ISO 1183-2	912	kg/m ³
Mechanical*				
Dart drop impact Method A		ASTM D 1709	>2000	g
Tensile strength at Yield MD/TD		ISO 527-3	8 / 8	MPa
Tensile strength at break MD/TD		ISO 527-3	73 / 69	MPa
Tensile strain at break MD/TD		ISO 527-3	520 / 620	%
1% Secant modulus MD/TD		ISO 527-3	120 / 130	MPa
Elmendorf tear strength MD/TD		ASTM D 1922	180 / 350	g/25 µm
Optical*				
Haze		ASTM D 1003	3	%
Gloss	45°	ASTM D 2457	83	%
Thermal				
Peaks melting temperature (DSC)		INEOS Test Method	97 - 114	°C
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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Extrusion conditions

Eltex[®] PF6012AA in lean blends can be processed on most standard extrusion equipment. Optimisation of conditions may be necessary, depending on the exact blend used.

Eltex[®] PF6012AA 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.

Regulatory Information

The product and uses described herein may be subject to specific requirements or limitations for use in certain applications like food contact, drinking water or medical devices. Further information may be obtained from the website www.ineos.com where a specific Regulatory Certificate is available for each grade under the heading "SDS & Regulatory Certificate".

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