

Eltex® PF6212AA

Product Technical Information Eltex® PF m-LLDPE film products

Applications

- Eltex® PF6212AA has been developed for use in food packaging and other thin film applications where excellent mechanical and optical performance is required. For more demanding applications such as lamination and surface protection, we recommend to use Eltex® PF6212LA.

Benefits and Features

Eltex® PF6212AA is a polyethylene copolymer containing hexene-1 as the comonomer produced with a metallocene catalyst. It offers the following properties:

- Extremely high impact strength
- Excellent optical properties
- Very good bubble stability and extrudability similar to best LLDPE blown film grade
- Low temperature sealing characteristics

If corona treatment is necessary, the level should normally be in the range 38-48 mN/m. We recommend that you consult your INEOS technical representative for further advice on the use of Eltex® PF6212AA.

Properties	Test Methods	Values	Units
Physical			
Melt Flow Rate	ISO 1133 Condition 4	1.2	g/10 min
Density			
Conditioning ISO 1872/1	ISO 1183 Method D	920	kg/m ³
Peak DSC melting temperature	DSC	118	°C
Additives: antioxidants			
Film*			
Dart drop impact	Method A	ASTM D1709	> 1000 g
Tensile stress @ yield	MD/TD	ISO 1184	9/10 MPa
Tensile stress @ break	MD/TD	ISO 1184	65/60 MPa
Elongation @ break	MD/TD	ISO 1184	550/670 %
1% Secant modulus	MD/TD	ISO 1184	180/200 MPa
Elmendorf tear strenght	MD/TD	ASTM D1922	200/440 g/25 \square m
Haze		ASTM D1003	7 %
Gloss (45°)		ASTM D2457	65 %

- Data should not be used for specification work

* 25 \square m film 2.5:1 blow-up ratio, 200°C melt temperature - MD = machine direction, TD = transverse direction



Eltex® PF6212AA

Extrusion conditions

Eltex® PF6212AA in lean blends can be processed on most standard extrusion equipment. Optimisation of conditions may be necessary, depending on the exact blend used.

Eltex® PF6212AA 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

Eltex® PF6212AA should be stored in a dry and dust free environment at temperatures below 50°C. Exposure to direct sunlight should be avoided, as this may lead to product deterioration.



Eltex® PF6212AA

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@innovene.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

Although INEOS Polyolefins endeavours to ensure that all information and advice relating to our materials or other materials howsoever provided to you by INEOS Polyolefins is accurate and up to date, no representation or warranty, express or implied is made by INEOS Polyolefins as to its accuracy or completeness. All such information and advice is provided in good faith and INEOS Polyolefins is not, to the maximum extent permitted by law, liable for any action you may take as a result of relying on such information or advice or for any loss or damage, including any consequential loss, suffered by you as a result of taking such action.

In addition data and numerical results howsoever provided to you by INEOS Polyolefins are given in good faith and are general in nature. Data and numerical results are not and shall not be regarded as specifications and as such INEOS Polyolefins is not, to the maximum extent permitted by law, liable for any action that you take as a result of relying on such data and results or for any loss or damage, including any consequential loss, suffered by you as a result of taking such action.

It remains at all times your responsibility to ensure that INEOS Polyolefins materials are suitable for the particular purpose intended and INEOS Polyolefins shall not be responsible for any loss or damage caused by misuse of INEOS Polyolefins products. To the maximum extent permitted by law, INEOS Polyolefins accepts no liability whatsoever arising out of the application, adaptation or processing of the products described herein, the use of other materials in lieu of INEOS Polyolefins materials or the use of INEOS Polyolefins materials in conjunction with such other materials.