



Eltex[®] PF0101XA (provisional)

Provisional Product Technical Information

Eltex[®] PF0101XA is a metallocene polyethylene plastomer resin produced in Europe

Benefits & Features

Eltex[®] PF0101XA is a polyethylene copolymer containing hexene-1 as comonomer and produced with a metallocene catalyst. It offers the following properties:

- Extremely low sealing initiation temperature and excellent Hot Tack strength
- Unrivalled impact strength and puncture resistance
- Very high gloss and transparency
- Good bubble stability and extrudability
- Excellent blending compatibility with other LLDPE and LDPE grades

Applications

Eltex[®] PF0101XA 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. **Eltex[®] PF0101XA** can be used pure or as a blending partner with other polyolefins. In addition, **Eltex[®] PF0101XA** offers easy extrudability.

Eltex[®] PF0101XA is also recommended as a softening agent in film and non-film compositions requiring softness or flexibility. The very low density and the unique microstructure of **Eltex[®] PF0101XA** are also valuable as toughness enhancer in various applications.

We recommend that you consult your INEOS technical representative for further advice on the use of **Eltex[®] PF0101XA**

Properties		Test Methods	Values	Units
Physical				
Melt Flow Rate		ISO 1133 Condition 4	1.3	g/10 min
Density				
Conditioning ISO 1872/1		ISO 1183 Method D	902	kg/m ³
Peaks melting temperature (DSC)		Ineos Method	86 & 115	°C
Additives: antioxidants				
Film*				
Dart drop impact	Method A	ASTM D1709	> 2000	g
Tensile stress @ yield	MD/TD	ISO 1184	6/8	MPa
Tensile stress @ break	MD/TD	ISO 1184	45/50	MPa
Elongation @ break	MD/TD	ISO 1184	500/600	%
1% Secant modulus	MD/TD	ISO 1184	55/60	MPa
Elmendorf tear strength	MD/TD	ASTM D1922	180/290	g/25 µm
Haze		ASTM D1003	2	%
Gloss (45°)		ASTM D2457	88	%

- Data should not be used for specification work

* 25 µm film, 2.0:1 blow-up ratio, 200°C melt temperature - MD = machine direction, TD = transverse direction

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Processing guidelines

Eltex[®] PF0101XA in lean blends can be processed on most standard extrusion equipment. Optimisation of conditions may be necessary, depending on the exact blend used.

Eltex[®] PF0101XA 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.

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".

Unless specifically indicated, the product mentioned herein is not suitable for applications in the medical or pharmaceutical sectors.

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

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