



Eltex® PF6212KJ

Product Technical Information

Eltex® PF m-LLDPE film products

Applications

- Eltex® PF6212KJ 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® PF6212LJ.

Benefits and Features

Eltex® PF6212KJ 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

Eltex® PF6212KJ offers high slip film with easy opening properties. Addition of other polymers, masterbatch and pigments may alter film slip and antiblock performance

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® PF6212KJ.

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
Slip (erucamide)		INEOS Method	1000	ppm
Antiblock (silica)		INEOS Method	300	ppm
Other 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



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Elmendorf tear strength MD/TD	ASTM D1922	200/440	g/25 µm
Coefficient of friction	ASTM D1894	< 0.2	-
Haze	ASTM D1003	7	%
Gloss (45°)	ASTM D2457	65	%

- Data should not be used for specification work

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

Extrusion conditions

Eltex® PF6212KJ in lean blends can be processed on most standard extrusion equipment. Optimisation of conditions may be necessary, depending on the exact blend used.

Eltex® PF6212KJ 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® PF6212KJ 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.



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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@ineos.com. Unless specifically indicated, the products mentioned herein are not suitable for applications in the medical or pharmaceutical sector.

Health and Safety Information

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