

Eltex® PF6220KJ

Product Technical Information

Eltex® PF6220KJ is a metallocene LLDPE grade produced in Europe.

Benefits & Features

Eltex® PF6220KJ is a polyethylene copolymer containing hexene-1 as the comonomer produced with a metallocene catalyst. It offers the following properties:

- High impact strength and rigidity
- Excellent optical properties
- Very good bubble stability and extrudability similar to the best LLDPE blown film grades
- Low temperature sealing characteristics

Eltex® PF6220KJ offers high slip film with easy opening properties. Addition of other polymers, masterbatch and pigments may alter film slip and antiblock performance.

Applications

Eltex® PF6220KJ has been developed for use in collation shrinkwrap, food packaging and other thin film applications where an excellent balance between film strength and rigidity is required together with good optical properties. In addition, Eltex® PF6220KJ offers easy extrudability.

Properties	Conditions	Test Methods	Values	Units
Rheological				
Melt Flow Rate	190°C/2.16Kg	ISO 1133-1	2.1	g/10min
Physical				
Density ISO 1872-1	23°C	ISO 1183-2	920	kg/m ³
Mechanical*				
Dart drop impact	Method A	ASTM D 1709	1000	g
Tensile strength at Yield	MD/TD**	ISO 527-3	9 / 10	MPa
Tensile strength at break	MD/TD**	ISO 527-3	60 / 60	MPa
Tensile strain at break	MD/TD**	ISO 527-3	615 / 700	%
1% Secant modulus	MD/TD**	ISO 527-3	160 / 195	MPa
Elmendorf tear strength	MD/TD**	ASTM D 1922	220 / 450	g/25 µm
Coefficient of friction		ASTM D 1894	< 0.25	-
Optical*				
Haze		ASTM D 1003	9	%
Gloss	45°	ASTM D 2457	60	%
Thermal				
Peaks DSC melting temperature	2nd heating	ASTM D 3418	104 - 116	°C
Additives				
Slip (erucamide)		INEOS Method	1000	ppm
Antiblock (silica)		INEOS Method	300	ppm
Antioxidants				

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



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Processing guidelines

Eltex[®] PF6220KJ in lean blends can be processed on most standard extrusion equipment. Optimisation of conditions may be necessary, depending on the exact blend used.

Eltex[®] PF6220KJ 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.