



Eltex[®] PF6612AA

Product Technical Information

Eltex[®] PF6612AA is a metallocene LLDPE grade produced in Europe.

Benefits & Features

Eltex[®] PF6612AA 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
- Low temperature sealing characteristics

Applications

Eltex[®] PF6612AA 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[®] PF6612AA** offers easy extrudability.

If corona treatment is necessary, the level should normally be in the range 38-48 mN/m.

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	926	kg/m ³
Mechanical*				
Dart drop impact	Method A	ASTM D 1709	200	g
Tensile strength at Yield	MD/TD**	ISO 527-3	13 / 13	MPa
Tensile strength at break	MD/TD**	ISO 527-3	55 / 50	MPa
Tensile strain at break	MD/TD**	ISO 527-3	570 / 690	%
1% Secant modulus	MD/TD**	ISO 527-3	230 / 270	MPa
Elmendorf tear strength	MD/TD**	ASTM D 1922	160 / 560	g/25 µm
Optical*				
Haze		ASTM D 1003	7	%
Gloss	45°	ASTM D 2457	65	%
Thermal				
Peak DSC melting temperature	2nd heating	ASTM D 3418	120	°C
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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Processing guidelines

Eltex[®] PF6612AA in lean blends can be processed on most standard extrusion equipment. Optimisation of conditions may be necessary, depending on the exact blend used.

Eltex[®] PF6612AA 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.