Eltex® PF6212AA

Product Technical Information

Eltex® PF6212AA is a metallocene LLDPE grade produced in Europe

Benefits & 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
- Low temperature sealing characteristics

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 temporary surface protection, we recommend to use **Eltex® PF6212LA**

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	919	kg/m³
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	65 / 60	MPa
Tensile strain at break	MD/TD**	ISO 527-3	550 / 670	%
1% Secant modulus	MD/TD**	ISO 527-3	180 / 200	MPa
Elmendorf tear strength	MD/TD**	ASTM D 1922	200 / 440	g/25 µm
Optical*				
Haze		ASTM D 1003	7	%
Gloss	45°	ASTM D 2457	65	‰
Thermal				
Peaks DSC melting temperature	2nd heating	ASTM D 3418	105 - 118	°C
Additives				
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® 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.

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.