



ELTEX[®] PF6812AA

Product Technical Information

ELTEX[®] PF6812AA is a metallocene LLDPE resin produced in Europe

Benefits & Features

ELTEX[®] PF6812AA is a polyethylene copolymer containing hexene-1 as the comonomer produced with a metallocene catalyst. It offers the following properties:

- High stiffness
- Good creep resistance
- Excellent balance between impact resistance and rigidity
- Very good bubble stability and easy extrudability during blown film extrusion
- Good optical properties
- Very low blocking

ELTEX[®] PF6812AA is formulated with antioxidants.

Applications

ELTEX[®] PF6812AA has been developed for use in coextruded blown film structures particularly suitable for food packaging, hygiene or industrial applications. Its unique balance between stiffness, toughness and optical properties makes it the material of choice for the most advanced film compositions with an optimum thickness reduction.. Its excellent resistance to slow crack growth also makes ELTEX[®] PF6812AA valuable for geomembrane applications.

We recommend that you consult your INEOS technical representative for further advice on the use of ELTEX[®] PF6812AA.

Properties	Conditions	Test Methods	Values	Units
Physical				
Density		ISO 1183-1 & ISO 1872-1	932	kg/m ³
Melt Flow Rate	190°C/2.16Kg	ISO 1133-1	1.3	g/10 min
Additives				
- Antioxidants				
Mechanical*				
Dart drop impact	Method A	ASTM D 1709	120	g
Tensile Stress at Yield	MD/TD**	ISO 1184	17 / 19	MPa
Tensile Stress at Break	MD/TD**	ISO 1184	60 / 55	MPa
Elongation at Break	MD/TD**	ISO 1184	640 / 770	%
1% Secant modulus	MD/TD**	ISO 1184	350 / 410	MPa
Elmendorf tear strength	MD/TD**	ASTM D 1922	70 / 520	g/25 µm
Optical				
Haze		ASTM D 1003	9	%
Gloss	45°	ASTM D 2457	65	%

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[®] PF6812AA in lean blends can be processed on most standard extrusion equipment. Optimisation of conditions may be necessary, depending on the exact blend used.

ELTEX[®] PF6812AA 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

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.