ELTEX® PF6180AA

Product Technical Information

ELTEX® PF6180AA is a polyethylene of high fluidity suitable for extrusion coating, cast film extrusion, injection moulding as well as compounds and masterbatches applications.

Benefits & Features

ELTEX® PF6180AA is a polyethylene copolymer containing hexene-1 as comonomer produced with a metallocene catalyst.
ELTEX® PF6180AA offers the following properties:

- Superior sealing performance
- Outstanding mechanical properties

Applications

For extrusion coating

- Extrusion coating polymer for highly demanding applications regarding sealing and mechanical properties

For cast film extrusion

- Polymer for the skin layers of cast stretch film to the benefit of enhanced surface finish aspect

For injection moulding

- Polymer for injected parts requiring superior stiffness/toughness balance
- Excellent ESCR resistance
- Outstanding impact properties

For masterbatch and compounds

- Polymer with basic additive package, for carrier resin of masterbatches and compounds
- High level of fillers

We recommend that you consult your INEOS technical representative for further advice on the use of **ELTEX® PF6180AA**.

Processing guidelines

ELTXE® PF6180AA should be processed on machinery purpose designed for LLDPE. The product is well stabilized, melt temperatures in the range 230 – 280°C can be used. It is recommended to avoid extrusion or injection temperatures above 280°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.

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Properties	Conditions	Test Methods	Values	Units
Physical				
Melt Flow Rate	190°C/ 2.16 kg	ISO 1133-1	8.0	g/10 min
Density		ISO 1183-1 & ISO 1872-1	916	kg/m³
Mechanical*				
Shore hardness D		ISO 868	49	-
Tensile modulus		ISO 527-2	320	MPa
Tensile strength @ yield		ISO 527-1, 2	11	MPa
Tensile strain @ yield		ISO 527-2	19	%
Tensile strength @ break		ISO 527-2	28	MPa
Tensile strain @ break		ISO 527-2	590	%
Flexural modulus	23°C	ISO 178	270	MPa
Izod impact strength, notched	-20°C	ISO 180/A	88**	kJ/m²
Environmental Stress Crack Resistance, by FNCT	3 MPa, 40°C 2% Arkopal N100	ISO 16770	> 800	h
Thermal				
Melting temperature, 2nd heating by DSC	10°C/min	ISO11357-3	105 – 116	°C
Vicat softening point	10 N	ISO 306, A50	97	°C

Data should not be used for specification work

*: all measurements on compression moulded plaques
**: only partial failures are observed at -20°C