

ELTEX[®] HD6009FA

Product Technical Information

ELTEX[®] HD6009FA is a high density polyethylene. It is a homopolymer with a narrow molecular weight distribution primarily intended for the extrusion of high rigidity **films**.

Benefits & Features

- High stiffness
- Suitable for orientation
- Very low gel content
- Superior processability & surface quality
- Very low MVTR (Moisture Vapour Transmission Rate)

Applications

- High rigidity films
- Machine Direction Oriented films
- Cereal liners film
- Injection moulding
- Blow-moulding for food packaging

Properties	Conditions	Test Methods	Values	Units
Rheological				
Melt Flow Rate	190°C/2.16kg	ISO 1133-1	0.9	g/10min
Melt Flow Rate	190°C/5 kg	ISO 1133-1	2.8	g/10 min
Melt Flow Rate	190°C/21.6 kg	ISO 1133-1	36	g/10 min
Apparent dynamic viscosity	190°C and 100 s-1	INEOS Test Method	1700	Pa.s
Physical				
Density ISO 17855-1	23°C	ISO 1183-1	960	kg/m ³
Mechanical				
1 % Secant Modulus	MD/TD**	ISO 527-3	1120/1460	MPa
Tensile Strength at Yield	MD/TD**	ISO 527-1,-2	35/40	MPa
Thermal				
Melting Temperature	Peak T°, 2nd heating 10°C/min	ISO 11357-3	136	°C
Optical*				
Haze		ASTM D1003	19	%
Gloss	45°	ASTM D2457	46	GU

Data should not be used for specification work

* 30 µm blown film extruded on a W&H 3 layer line; BUR 2.5:1; 200°C Melt temperature

** MD: Machine direction; TD: Transverse direction

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.