



# ELTEX<sup>®</sup> HD6009FA

## Product Technical Information

**ELTEX<sup>®</sup> 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             |
|----------------------------|--------------------------------------------|-------------------|-----------|-------------------|
| <b>Rheological</b>         |                                            |                   |           |                   |
| 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              |
| <b>Physical</b>            |                                            |                   |           |                   |
| Density ISO 17855-1        | 23°C                                       | ISO 1183-1        | 960       | kg/m <sup>3</sup> |
| <b>Mechanical</b>          |                                            |                   |           |                   |
| 1 % Secant Modulus         | MD/TD**                                    | ISO 527-3         | 1120/1460 | MPa               |
| Tensile Strength at Yield  | MD/TD**                                    | ISO 527-1,-2      | 35/40     | MPa               |
| <b>Thermal</b>             |                                            |                   |           |                   |
| Melting Temperature        | Peak T <sup>o</sup> , 2nd heating 10°C/min | ISO 11357-3       | 136       | °C                |
| <b>Optical*</b>            |                                            |                   |           |                   |
| 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

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## 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.

## Regulatory Information

The product and uses described herein may be subject to specific requirements or limitations for use in certain applications like food contact, drinking water or medical devices. Further information may be obtained from the website [www.ineos.com](http://www.ineos.com) where a specific Regulatory Certificate is available for each grade under the heading "SDS & Regulatory Certificate".

Unless specifically indicated, the product mentioned herein is not suitable for applications in the medical or pharmaceutical sectors.

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