Manufacturer website: https://www.ineos.com/businesses/ineos-olefins-polymers/

ELTEX® HD4706EA-Y

Product Technical Information

ELTEX® HD4706EA-Y is a high density polyethylene copolymer grade with a narrow molecular weight distribution and is primarily intended for the production of tapes from cast and blown film. The grade offers excellent processibility and enables the production of tapes with an optimal tenacity–elongation balance. The grade does not contain UV stabilisers.

Applications

- Tapes from cast and blown films
- Round bale nets

Properties	Conditions	Test Methods	Values	Units
Physical				
Density [1]	23°C	ISO 1183-1	947.5	kg/m³
Rheological				
Melt Flow Rate	190°C/5kg	ISO 1133-1	1.7	g/10min
Apparent dynamic viscosity [2]	190°C and 100 s-1	INEOS Test Method	2750	Pa.s
Mechanical [3]				
Tensile strength at yield	23°C, 50 mm/min	ISO 527-2	28.5	MPa
Tensile strength at break	23°C, 50 mm/min	ISO 527-2	50	MPa
Tensile strain at Break	23°C, 50 mm/min	ISO 527-2	>1000	%
Tensile Modulus	23°C, 1 mm/min	ISO 527-2	1100	MPa
Thermal				
Melting Temperature	DSC 2nd heating 10°C/min	ISO 11357-3	133	°C
Heat Deflection Temperature	0.45 MPa	ISO 75-2	76	°C
Vicat Softening Temperature	10N	ISO306/A50	123	°C
Other				
Molecular weight distribution		INEOS	Narrow	-

Data should not be used for specification work

[1] Compression-moulded discs, cooled at the rate of 15°C per minute.

[2] Apparent dynamic viscosity of the material extruded at 190°C through a 2.0 mm diameter and 30 mm long die, at apparent shear rate 100 s-1.

[3] Measured on compression-moulded plates of 2.0 mm thickness.

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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 a maximum of 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 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.

Health and Safety Information

The product described herein may require precautions in handling. The available product health and safety information for this material is contained in the Safety Data Sheet (SDS) that may be obtained from the website www.ineos.com. Before using any material, a customer is advised to consult the SDS for the product under consideration for use.

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