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

RIGIDEX® HD6070FA

Product Technical Information

HDPE for Film products

RIGIDEX® HD6070FA is a high density polyethylene suitable for a range of high quality film applications.

Benefits & Features

- High stiffness
- Very low gel level
- Easy extrudability
- Good optical properties in cast extrusion
- High gloss
- Better heat and scratch resistance compared to LDPE and lower blocking
- In extrusion coating : good processability, high coating speed, good draw down ability with reasonable neck-in, good adhesion on many substrates

Applications

- Cast or blown film as a blending partner to increase stiffness of LDPE or LLDPE
- Cast co-extrusion for high stiffness films or non-blocking layers
- Extrusion coating as a blending partner or in co-extrusion with LDPE extrusion coating grades. With such blends (minimum content of LDPE of 20%), coated substances such as paper and cardboard can be used e.g. for photographic paper and for ream wrapping.

Properties	Conditions	Test Methods	Values	Units
Rheological				
Melt Flow Rate	190°C/2.16kg	ISO 1133-1	7.6	g/10min
Physical				
Density ISO 17855-1	23°C	ISO 1183-1	960	kg/m³
Mechanical				
1% Secant Modulus	MD/TD	ISO 527-3	700	MPa
Elongation at break	MD/TD	ISO 527-3	500	%
Tensile stress at break	MD/TD	ISO 527-3	50	MPa
Vicat softening temperature	Method A (10N)	ISO 306	127	°C
Optical				
Gloss	45°	ASTM D2457	75	GU
Haze		ASTM D1003	7	%
Thermal				
Melting Temperature	DSC,10°C/min	INEOS Test Method	132	°C
Specific heat		ISO	2300	J/kg.°C
Thermal conductivity		ASTM C177	0.48	W/m.K

Data should not be used for specification work

* 15 µm cast film extruded at 200°C – 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 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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