



# RIGIDEX<sup>®</sup> HD6070FA

## Product Technical Information

HDPE for Film products

**RIGIDEX<sup>®</sup> 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
<b>Rheological</b>				
Melt Flow Rate	190°C/2.16kg	ISO 1133-1	7.6	g/10min
<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	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
<b>Optical</b>				
Gloss	45°	ASTM D2457	75	GU
Haze		ASTM D1003	7	%
<b>Thermal</b>				
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.