

# 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.

## Typical 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.

## Benefits and 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

Properties	Test Methods	Values	Units
<b>Physical</b>			
Density	ISO 1872	960	kg/m <sup>3</sup>
Melt Flow Rate      2.16 kg load	ISO 1133	7.6	g/10min
Vicat softening tempertuare	ISO 306 Method A	127	°C
DSC melting temperature (10°C/min)	INEOS Method	132	°C
Thermal conductivity	ASTM C177	0.48	W/m <sup>2</sup>
Specific heat	-	2300	J/kg °C
Additives:antioxidants			



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## Film\*

Tensile Stress @ Break	MD/TD	ISO 1184	50	MPa
Elongation @ Break	MD/TD	ISO 1184	500	%
1% Secant modulus	MD/TD	ISO 1184	700	MPa
Haze		ASTM D1003	7	%
Gloss (45°)		ASTM D2457	75	%

- Data should not be used for specification work.

\* 15 µm cast film extruded at 200°C – MD: machine direction - TD: transverse direction