Rigidex® HD6070FA

High Density Polyethylene

INEOS Olefins & Polymers Europe

Message:

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

General Information	
Additive	Antioxidant
Features	Antioxidant Good Adhesion Good Drawdown Good Processability High Density High Gloss High Stiffness Low Gel Opticals
Uses	Blending Blown Film Cast Film Coating Applications Film Paper Coatings
RoHS Compliance	Contact Manufacturer
Forms	Pellets
Processing Method	Blown Film Cast Film Coextrusion Extrusion Coating

Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm³	ISO 1872
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.6	g/10 min	ISO 1133
Films	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus - 1% Secant (15 µm, Cast Film)	700	MPa	ISO 1184
Tensile Stress (Break, 15 µm, Cast Film)	50.0	MPa	ISO 1184
Tensile Elongation (Break, 15 µm, Cast Film)	500	%	ISO 1184
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	127	°C	ISO 306/A
Melting Temperature (DSC) [1]	132	°C	Internal Method
Specific Heat	2300	J/kg/°C	
Thermal Conductivity	0.48	W/m/K	ASTM C177
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 15.0 µm, Cast Film)	75		ASTM D2457
Haze (15.0 µm, Cast Film)	7.0	%	ASTM D1003
NOTE			
1.	10°C/min		

Recommended distributors for this material

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