



SABIC® LLDPE 0132HS00

Linear low density polyethylene for Sheet extrusion

Description.

SABIC® LLDPE 0132HS00 is a hexene-1 copolymer medium density grade, which combines excellent extrusion performance, mechanical properties, ESCR and low migration values.

Application.

SABIC® LLDPE 0132HS00 is especially developed for the application in high demanding extrusions segments like e.g. sheet and more specific geo-membranes.

Properties.

Tensile test is determined on compression moulded specimen (1.6 mm thick) at 200 mm/min. NCTL conditions: 5 MPa, 60 $^\circ$ C and 2 % surfactant.

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/ medical applications.

Typical data.			Revision 20121112
Properties	Units SI	Values	Test methods
Polymer properties			
Colour	-	natural	-
Melt flow rate (MFR)			ISO 1133
at 190 °C and 2.16 kg	dg/min	0.8	
Density	kg/m³	932	ISO 1183
Mechanical properties			
Tensile test			ISO 527-2
stress at yield	MPa	18	
strain at yield	%	12	
strain at break	%	> 700	
tensile modulus	MPa	620	
Charpy impact notched			ISO 179/1eA
at 23 °C	kJ/m²	30	
at -30 °C	kJ/m²	9	
Hardness Shore D	-	54	ISO 868
Notched Constant Tensile Load	h	> 2000	ASTM D 5397
OIT 210 °C	min	> 50	EN 728
Thermal properties			
Vicat softening temperature			ISO 306
at 50 N (VST/B)	O°	60	
DSC test			DIN 53765
melting point	O° C	118-122	





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General Information. SABIC® LLDPE (LLDPE and MDPE) products for extrusion applications are produced by a large-scale gas phase plant using Ziegler/Natta catalysts. As a result the products have a narrow molecular weight distribution.

The gas phase process is characterized by its excellent capability-to-produce in terms of product quality and the products exhibit high purity and excellent extrusion performance.

Depending on the required physical- and mechanical properties of the specific application both butene-1 and hexene-1 can be used as a co-monomer.

Health, Safety and Food Contact regulations. Detailed information is provided in the relevant Material Safety Datasheet and or Standard Food Declaration, available on the Internet (www.SABIC-europe.com). Additional specific information can be requested via your local Sales Office.

Quality. SABIC Europe is fully certified in accordance with the internationally accepted quality standard ISO 9001. It is SABIC Europe's policy to supply materials that meet customers specifications and needs and to keep up its reputation as a pre-eminent, reliable supplier of e.g. polyethylenes.

Storage and handling. Polyethylenes resins (in pelletised or powder form) should be stored in such a way that it prevents exposure to direct sunlight and/or heat, as this may lead to quality deterioration. The storage location should also be dry, dust free and the ambient temperature should not exceed 50 °C. Not complying with these precautionary measures can lead to a degradation of the product which can result in colour changes, bad smell and inadequate product performance. It is also advisable to process polyethylene resins (in pelletised or powder form) within 6 months after delivery, this because also excessive aging of polyethylene can lead to a deterioration in quality.

Environment and recycling. The environmental aspects of any packaging material do not only imply waste issues but have to be considered in relation with the use of natural resources, the preservations of foodstuffs, etc. SABIC Europe considers polyethylene to be an environmentally efficient packaging material. Its low specific energy consumption and insignificant emissions to air and water designate polyethylene as the ecological alternative in comparison with the traditional packaging materials. Recycling of packaging materials is supported by SABIC Europe whenever ecological and social benefits are achieved and where a social infrastructure for selective collecting and sorting of packaging is fostered. Whenever 'thermal' recycling of packaging (i.e. incineration with energy recovery) is carried out, polyethylene -with its fairly simple molecular structure and low amount of additives- is considered to be a trouble-free fuel.

Disclaimer. The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

SABIC Europe as referred to herein means any legal entity belonging to the SABIC Europe group of companies.