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SABIC® LLDPE 6135BE

LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LLDPE 6135BE is a hexene-1 copolymer medium density grade, which combines good extrusion performance, mechanical properties, ESCR and low migration values.Application.SABIC® LLDPE 6135BEis typically usedin 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 °C and 2 % surfactant.This product is not intended for and must not be used in any pharmaceutical/medical applications.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Colour	natural	-	-
Colour code	00900	-	-
Melt Flow Rate			
at 190 °C and 2.16 kg	0.8	dg/min	ISO 1133
at 190 °C and 5 kg	2.4	dg/min	ISO 1133
Density	932	kg/m³	ASTM D1505
MECHANICAL PROPERTIES			
Tensile test			
tensile modulus	620	MPa	ISO 527-2
strain at yield	12	%	ISO 527-2
stress at yield	18	MPa	ISO 527-2
Tensile test			
strain at break	> 700	%	ISO 527-2
Charpy Impact Strength Notched			
at -30 °C	9	kJ/m²	ISO 179/1eA
at 23 °C	30	kJ/m²	ISO 179/1eA
Hardness Shore D	54	-	ISO 868
Notched Constant Tensile Load (1)	> 2000	h	ASTM D5397
OIT 210 °C	> 50	min	ISO 11357-6
THERMAL PROPERTIES			
Vicat Softening Temperature			
at 50 N (VST/B)	60	°C	ISO 306
DSC test			
melting point	118 – 122	°C	DIN 53765

(1) 5 MPa, 60 °C, 2% surfactant

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.

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.