



SABIC® LDPE 2402TC32

Low density polyethylene for Blown film

Description

SABIC® LDPE 2402TC32 is a grade with elevated density clarity grade with a high level of anti block and an average amount of slip agent (E=erucamide). The grade has good optics, can be easily processed and has an excellent draw down ability.

Application

SABIC® LDPE 2402TC32 is specially suitable for thin stiffer films for automatic packaging purposes for e.g. food, bread and other consumer goods.

Film properties

Film properties have been measured at film of 25 µm with a BUR of 3.

The film has been produced on Kiefel IBC blown film line with 200 kg/h. Die size 200 mm, die gap 0.8 mm.

Typical data.

Revision 20051216

Properties	Units SI	Values	Test methods	
Polymer properties				
Melt flow rate (MFR) at 190 °C and 2.16 kg	g/10 min	2.5	ISO 1133	
Density	kg/m ³	924	ISO 1183 (A)	
Formulation				
Slip	mg/kg	600 E	SABIC method	
Anti block	mg/kg	800	SABIC method	
Optical properties				
Gloss (45°)	‰	55	ASTM D 2457	
Haze	%	10	ASTM D 1003A	
Clarity	mV	22	SABIC method	
Film properties				
Impact strength	kJ/m	15	ASTM D 4272	
Tear strength TD	kN/m	30	ISO 6383-2	
Tear strength MD	kN/m	80	ISO 6383-2	
Tensile test film				
Yield stress TD	MPa	12	ISO 527-3	
Yield stress MD	MPa	12		
Stress at break TD	MPa	20		
Stress at break MD	MPa	30		
Strain at break TD	%	> 500		
Strain at break MD	%	> 100		
Modulus of elasticity TD	MPa	240		
Modulus of elasticity MD	MPa	240		
Coefficient of friction	-	0.2		ASTM D 1894
Blocking	g	< 5		SABIC method
Re-blocking	g	< 5	SABIC method	

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General information. SABIC Europe produces low density polyethylene by the tubular and the autoclave reactor processes. As a result the product range covers a wide variety of densities and melt flow rates. The LDPE grade slate has a wide variety of slip and anti block additive levels and includes a large numbers of grades with excellent optical properties.

SABIC's CTR® tubular production technology and autoclave production technology guarantees a very low gel level and outstanding draw down ability, low odour and taste levels, which is of advantage for thin film processing and in e.g. food packaging.

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 9001-2000. 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.