



SABIC® LDPE 2201TH32W

Low density polyethylene for Blown film

Description

SABIC® LDPE 2201TH32W is a grade anti block and slip agent (E=erucamide). The grade has excellent draw down ability. Films based on 2201TH32W combine toughness with high tear strength, excellent optical properties and low CoF.

Application

SABIC® LDPE 2201TH32W is specially suitable for thin packaging film purposes, where excellent optical properties are required.

SABIC® LDPE 2201TH32W can typically be used for food applications due to very low migration levels.

Film properties

Film properties have been measured at film of 50 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.

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

Typical data.

Revision 20150303

Properties	Units SI	Values	Test methods
Polymer properties			
Melt flow rate (MFR) at 190 °C and 2.16 kg	dg/min	0.85	ISO 1133
Density	kg/m ³	922	ISO 1183 (A)
Formulation			
Slip		600 E	SABIC method
Anti block		800	SABIC method
Optical properties			
Gloss (45°)	‰	68	ASTM D 2457
Haze	%	8	ASTM D 1003A
Film properties			
Impact strength	kJ/m	25	ASTM D 4272
Tear strength TD	kN/m	35	ISO 6383-2
Tear strength MD	kN/m	45	ISO 6383-2
Tensile test film			ISO 527-3
Yield stress TD	MPa	11	
Yield stress MD	MPa	11	
Stress at break TD	MPa	22	
Stress at break MD	MPa	27	
Strain at break TD	%	> 500	
Strain at break MD	%	> 200	
Modulus of elasticity TD	MPa	170	
Modulus of elasticity MD	MPa	170	
Coefficient of friction	-	0.2	ASTM D 1894
Blocking	g	< 5	SABIC method
Re-blocking	g	10	SABIC method
Thermal properties			
Vicat softening temperature			ISO 306



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at 10 N (VST/A)	°C	96	
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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.

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