

SABIC® LDPE 2501N0

LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LDPE 2501N0 is a grade without additives with a low gel level, which combines good draw down ability with fair optical properties and stiffness.

Application

SABIC® LDPE 2501N0 is typically used in diaper film, surface protection film, lamination film and in applications where low blocking behavior is required and the presence of slip and anti block is unwanted.

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.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

TYPICAL PROPERTY VALUES

Revision 20260202

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	0.75	dg/min	ISO 1133
Density	925	kg/m³	ASTM D1505
OPTICAL PROPERTIES			
Haze	10	%	ASTM D1003
FILM PROPERTIES			
Impact strength	15	kJ/m	ASTM D4272
Tear strength TD	45	kN/m	ISO 6383-2
Tear strength MD	45	kN/m	ISO 6383-2
Tensile test film			
Modulus of elasticity TD	200	MPa	ASTM D882
Yield stress TD	12	MPa	ASTM D882
Yield stress MD	10	MPa	ISO 527-3
Stress at break MD	25	MPa	ASTM D882
Stress at break TD	20	MPa	ASTM D882
Modulus of elasticity MD	150	MPa	ISO 527-3
Tensile test film			
Strain at break MD	>200	%	ASTM D882
Strain at break TD	>500	%	ASTM D882
Coefficient of friction	0.9	-	ASTM D1894
Blocking	20	g	SABIC method
Re-blocking	<5	g	SABIC method
THERMAL PROPERTIES			
Vicat Softening Temperature			
at 10 N (VST /A)	98	°C	ISO 306



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 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 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.

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.

DISCLAIMER

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