

# SABIC® LDPE 2402H3W

## LOW DENSITY POLYETHYLENE

### DESCRIPTION

SABIC® LDPE 2402H3W is a high gloss, general purpose grade with a high level of anti block and slip agent. This grade offers good optical properties and a very good draw down ability.

#### Application

SABIC® LDPE 2402H3W is typically used for thin high gloss films used for automatic packaging purposes. Due to very low migration levels, SABIC® LDPE 2402H3W can also be used for food applications.

#### 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.

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

### TYPICAL PROPERTY VALUES

Revision 20211203

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
Density	924	kg/m <sup>3</sup>	ISO 1183
<b>Melt Flow Rate (MFR)</b>			
at 190 °C and 2.16 kg	2.5	dg/min	ISO 1133
<b>OPTICAL PROPERTIES</b>			
Gloss (45°)	60	%	ASTM D2457
Haze	8	%	ASTM D1003
<b>FILM PROPERTIES</b>			
Impact strength	20	kJ/m	ASTM D4272
Tear strength TD	35	kN/m	ISO 6383-2
Tear strength MD	70	kN/m	ISO 6383-2
<b>Tensile test film</b>			
Stress at break TD	20	MPa	ISO 527-3
Modulus of elasticity TD	200	MPa	ISO 527-3
Yield stress MD	12	MPa	ISO 527-3
Yield stress TD	11	MPa	ISO 527-3
Stress at break MD	28	MPa	ISO 527-3
Modulus of elasticity MD	190	MPa	ISO 527-3
<b>Tensile test film</b>			
Strain at break TD	>500	%	ISO 527-3
Strain at break MD	>200	%	ISO 527-3
Coefficient of friction	0.2	-	ASTM D1894
Blocking	<5	g	SABIC method
Re-blocking	<5	g	SABIC method
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature</b>			
at 10 N (VST/A)	98	°C	ISO 306

## 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 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.

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