

# SABIC<sup>®</sup> LDPE 2404H4

## LOW DENSITY POLYETHYLENE

### DESCRIPTION

SABIC<sup>®</sup> LDPE 2404H4 is a grade with a high level of anti block and slip agent. The grade has a very good draw down ability. Typically films produced from this grade are stiff, have very good optical properties, low CoF and no blocking.

#### Application

SABIC<sup>®</sup> LDPE 2404H4 is typically used for stiffer thin films for textile packaging.

#### 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 20181012

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate</b>			
at 190 °C and 2.16 kg	4.7	dg/min	ISO 1133
<b>Density</b>	925	kg/m <sup>3</sup>	ASTM D1505
<b>OPTICAL PROPERTIES</b>			
<b>Gloss (45°)</b>	50	%	ASTM D2457
<b>Haze</b>	11	%	ASTM D1003
<b>FILM PROPERTIES</b>			
<b>Impact strength</b>	13	kJ/m	ASTM D4272
<b>Tear strength TD</b>	30	kN/m	ISO 6383-2
<b>Tear strength MD</b>	90	kN/m	ISO 6383-2
<b>Tensile test film</b>			
Modulus of elasticity TD	250	MPa	ISO 527-3
Stress at break MD	28	MPa	ISO 527-3
Stress at break TD	16	MPa	ISO 527-3
Yield stress TD	12	MPa	ISO 527-3
Modulus of elasticity MD	240	MPa	ASTM D882
Strain at break MD	100	%	ISO 527-3
<b>Tensile test film</b>			
Strain at break TD	>500	%	ISO 527-3
<b>Coefficient of friction</b>	0.2	-	ASTM D1894
<b>Blocking</b>	<5	g	SABIC method
<b>Re-blocking</b>	20	g	SABIC method
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature</b>			
at 10 N (VST/A)	94	°C	ISO 306

## 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.com](http://www.SABIC.com)). Additional specific information can be requested via your local Sales Office.

## QUALITY

SABIC 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 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.

## DISCLAIMER

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