

SABIC® LDPE 2404H4

LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® 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® 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

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	4.7	dg/min	ISO 1133
Density	925	kg/m³	ASTM D1505
OPTICAL PROPERTIES			
Gloss (45°)	50	%	ASTM D2457
Haze	11	%	ASTM D1003
FILM PROPERTIES			
Impact strength	13	kJ/m	ASTM D4272
Tear strength TD	30	kN/m	ISO 6383-2
Tear strength MD	90	kN/m	ISO 6383-2
Tensile test film			
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
Tensile test film			
Strain at break TD	>500	%	ISO 527-3
Coefficient of friction	0.2	-	ASTM D1894
Blocking	<5	g	SABIC method
Re-blocking	20	g	SABIC method
THERMAL PROPERTIES			
Vicat Softening Temperature			
at 10 N (VST/A)	94	°C	ISO 306