

SABIC® LDPE 2404H4

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LDPE 2404H4 is a grade with a high level of anti block and slip agent (E=erucamide). 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.

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

General Information			
Additive	High caking resistance (2000 ppm)		
	Erucamide Lubricating Additive (750 ppm)		
Features	Low density		
	Low friction coefficient		
	Rigid, good		
	High smoothness		
	High caking resistance		
	Optical		
	Good stripping		
Uses	Blown Film		
	Packaging		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.7	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (Blown Film)	0.20		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Tensile Modulus			ISO 527-3
MD: 25 µm, blown film	240	MPa	ISO 527-3
TD: 25 µm, blown film	250	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: Yield, 25 µm, blown film	12.0	MPa	ISO 527-3
TD: Yield, 25 µm, blown film	12.0	MPa	ISO 527-3
MD: Broken, 25 µm, blown film	28.0	MPa	ISO 527-3
TD: Broken, 25 µm, blown film	16.0	MPa	ISO 527-3

Tensile Elongation			ISO 527-3
MD: Broken, 25 µm, blown film	100	%	ISO 527-3
TD: Broken, 25 µm, blown film	> 500	%	ISO 527-3
Impact	Nominal Value	Unit	Test Method
Impact Strength - Blown Film (25.0 µm)	130	J/cm	ASTM D4272
Blocking - Blown Film (25.0 µm)		g	Internal method
Re-blocking - Blown Film (25.0 µm)	20	g	Internal method
Tear Strength ¹			ISO 6383-2
MD : 25.0 µm	90.0	kN/m	ISO 6383-2
TD : 25.0 µm	30.0	kN/m	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	94.0	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 µm, Blown Film)	50		ASTM D2457
Haze (25.0 µm, Blown Film)	11	%	ASTM D1003A
Additional Information	Nominal Value	Unit	Test Method
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.			
NOTE			

1. Blown Film

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