

SABIC® LDPE HP2023J

Low Density Polyethylene

SABIC Americas, Inc.

Message:

PRODUCT DESCRIPTION:

SABIC® LDPE HP2023J is a Low Density Polyethylene grade formulated with slip and anti-block additives. It typically exhibits better draw down ability with high output. Films typically have good optics with low friction and low blocking.

TYPICAL APPLICATIONS:

Thin shrink film, lamination film, packaging films for food and industrial goods, bags & pouches. It also enables high speed converting without sticking. This product is not intended for use in medical and pharmaceutical applications.

General Information			
Additive	Anti-caking agent (1000 ppm) 2		
	Sliding agent (500 ppm) 3		
Features	Low density		
	Low friction coefficient		
	smoothness		
	Optical		
	Anti-caking property		
	Good stripping		
	Compliance of Food Exposure		
Uses	Packaging		
	Films		
	Laminate		
	Bags		
	Industrial application		
	Food packaging		
	Shrinkable film		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.923	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (0.0500 mm)	260	MPa	ISO 527-2
Tensile Stress (yield, 0.0500mm)	11.0	MPa	ISO 527-2
Coefficient of Friction		%	ISO 8295
Blow-up Ratio	2.00 - 3.00		

Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	μm	
Film Thickness - Recommended / Available	20 - 60 micron		
Tensile Stress			ISO 527-3
MD: Broken, 50 μm, blown film	25.0	MPa	ISO 527-3
TD: Broken, 50 μm, blown film	21.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 50 μm, blown film	250	%	ISO 527-3
TD: Broken, 50 μm, blown film	600	%	ISO 527-3
Dart Drop Impact (50 μm, Blown Film)	110	g	ASTM D1709
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	94.0	°C	ISO 306/A50
Melting Temperature (DSC)	111	°C	ISO 3146
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
20, 50.0 μm, blown film	> 50		ASTM D2457
60, 50.0 μm, blown film	> 100		ASTM D2457
Haze (50.0 μm, Blown Film)	< 9.0	%	ASTM D1003
Additional Information	Nominal Value		
Measured on 50 micron thickness blown film extruded at melt temperature of 180°C with BUR of 2.5			
Extrusion	Nominal Value	Unit	
Melt Temperature	160 - 200	°C	

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