

# SABIC® LDPE HP4027J

Low Density Polyethylene

SABIC Americas, Inc.

Message:

PRODUCT DESCRIPTION:

SABIC® LDPE HP4027J is a Low Density Polyethylene grade formulated with slip agent and anti-block additives, with increased density. It typically exhibits excellent draw down ability with higher output. Films typically exhibit good optics, low friction, low blocking and high rigidity.

TYPICAL APPLICATIONS:

Thin film for textile packaging, high clarity laundry bags, bread bags, general purpose film for high speed automatic packaging lines. This grade is typically suitable where higher stiffness and down gauging are required.

This product is not intended for use in medical and pharmaceutical applications.

General Information			
Additive	Anti-caking agent (1000 ppm) 2		
	Sliding agent (700 ppm) 3		
Features	Low density		
	Low friction coefficient		
	Rigidity, high		
	smoothness		
	Optical		
	Anti-caking property		
	Good stripping		
	Compliance of Food Exposure		
Uses	Packaging		
	Films		
	Bags		
	Laundry bag		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.927	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (0.0500 mm)	300	MPa	ISO 527-2
Tensile Stress (yield, 0.0500mm)	13.0	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	15 - 40 micron		
Tensile Stress			ISO 527-3
MD: Broken, 50 μm, blown film	20.0	MPa	ISO 527-3
TD: Broken, 50 μm, blown film	15.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 50 μm, blown film	300	%	ISO 527-3
TD: Broken, 50 μm, blown film	550	%	ISO 527-3
Dart Drop Impact (50 μm, Blown Film)	90	g	ASTM D1709
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	92.0	°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	> 70		ASTM D2457
60, 50.0 μm, blown film	> 110		ASTM D2457
Haze (50.0 μm, Blown Film)	< 8.0	%	ASTM D1003
Additional Information	Nominal Value		
Measured on 50 micron thickness blown film extruded at melt temperature of 170°C with BUR of 2.5			
Extrusion	Nominal Value	Unit	
Melt Temperature	150 - 190	°C	

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#### Recommended distributors for this material

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