

SABIC® LDPE HP2027N

Low Density Polyethylene

SABIC Americas, Inc.

Message:

PRODUCT DESCRIPTION:

SABIC® LDPE HP2027N is a Low Density Polyethylene grade without slip and anti-block additives, with increased density. It typically exhibits better draw down ability with high output. Films typically exhibit excellent optics and good heat seal properties combined with high rigidity.

TYPICAL APPLICATIONS:

Bags & pouches, surface protection films, lamination films, food packaging films. Films where high optics, enhanced stiffness and down gauging are required.

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

General Information			
Features	Low density		
	Rigidity, high		
	Optical		
	Good stripping		
	Good heat sealability		
	Compliance of Food Exposure		
Uses	Films		
	Laminate		
	Bags		
	Food packaging		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.927	g/cm ³	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)	300	MPa	ISO 527-2
Tensile Stress (yield, 0.0500mm)	13.0	MPa	ISO 527-2
Coefficient of Friction	> 80	%	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	20.0	MPa	ISO 527-3

Tensile Elongation			ISO 527-3
MD: Broken, 50 µm, blown film	350	%	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	100	°C	ISO 306/A50
Melting Temperature (DSC)	114	°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)	< 6.5	%	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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

