SABIC® LDPE HP4027N

Low Density Polyethylene

SABIC Americas, Inc.

Message:

PRODUCT DESCRIPTION:
SABIC® LDPE HP4027N is a Low Density Polyethylene grade without slip and anti-block additives, with increased density. It typically exhibits good draw down ability with higher output. Films typically exhibit excellent optics, good heat seal properties combined with high rigidity.
TYPICAL APPLICATIONS:
Surface protection films, thin general purpose 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		
Forms	Particle		
Processing Method	Blow film		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	0.927	g/cm³	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	> 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	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	17.0	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)	90	g	ASTM D1709
Thermal	**Nominal Value**	**Unit**	**Test Method**

Vicat Softening Temperature	97.0	°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	> 80		ASTM D2457
60, 50.0 µm, blown film	> 115		ASTM D2457
Haze (50.0 µm, Blown Film)	< 7.0	%	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	

Recommended distributors for this material

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