

SABIC® LDPE HP0323N

Low Density Polyethylene

SABIC Americas, Inc.

Message:

PRODUCT DESCRIPTION:

SABIC® LDPE HPO323N is a Low Density Polyethylene grade without slip and anti-block additives. It typically exhibits good melt strength and processability. Films typically exhibit good toughness, good tear strength and high bundling force.

TYPICAL APPLICATIONS:

Heavy duty bags, industrial shrink films, construction and agriculture films, bags & pouches.

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

General Information			
Features	Low density		
	Workability, good		
	Good melt strength		
	Good tear strength		
	Good toughness		
	Compliance of Food Exposure		
Uses	Films		
	Bags		
	Industrial application		
	Architectural application field		
	Agricultural application		
	Heavy packing bag		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.923	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	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)	10.0	MPa	ISO 527-2
Coefficient of Friction	> 80	%	ISO 8295
Blow-up Ratio	2.50 - 4.00		
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Film Thickness - Recommended / Available	70 - 220 micron		
Tensile Stress			ISO 527-3
MD: Broken, 50 µm, blown film	27.0	MPa	ISO 527-3

TD: Broken, 50 µm, blown film	25.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 50 µm, blown film	200	%	ISO 527-3
TD: Broken, 50 µm, blown film	500	%	ISO 527-3
Dart Drop Impact (50 µm, Blown Film)	250	g	ASTM D1709
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	96.0	°C	ISO 306/A50
Melting Temperature (DSC)	110	°C	ISO 3146
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
20, 50.0 µm, blown film	> 15		ASTM D2457
60, 50.0 µm, blown film	> 50		ASTM D2457
Haze (50.0 µm, Blown Film)	< 14	%	ASTM D1003
Additional Information	Nominal Value		
Properties have been 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	170 - 220	°C	

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