

SABIC® LDPE HP0322N

Low Density Polyethylene

SABIC Americas, Inc.

Message:

Product Description

HP0322N is Low Density Polyethylene grade suitable for producing heavy duty films and contains no slip and antiblock additives. It gives outstanding toughness and optical properties in the film.

Typical Applications

HP0322N can be used for Heavy duty bags, industrial shrink films, construction and agricultural films.

General Information			
Features	Low density		
	Optical		
	Good toughness		
	Compliance of Food Exposure		
Uses	Films		
	Industrial application		
	Architectural application field		
	Agricultural application		
	Heavy packing bag		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
secant modulus			ASTM D882
1% secant, MD: 50 µm, blown film	190	MPa	ASTM D882
1% secant, TD: 50 µm, blown film	220	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 50 µm, blown film	11.0	MPa	ASTM D882
TD: Yield, 50 µm, blown film	10.0	MPa	ASTM D882
MD: Broken, 50 µm, blown film	31.0	MPa	ASTM D882
TD: Broken, 50 µm, blown film	30.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 50 µm, blown film	450	%	ASTM D882
TD: Broken, 50 µm, blown film	690	%	ASTM D882
Dart Drop Impact (50 µm, Blown Film)	200	g	ASTM D1709

Elmendorf Tear Strength			ASTM D1922
MD: 50 µm, blown film	400	g	ASTM D1922
TD: 50 µm, blown film	300	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	95.0	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 µm, Blown Film)	50		ASTM D2457
Haze (50.0 µm, Blown Film)	11	%	ASTM D1003
Additional Information	Nominal Value		
Blow-up Ratio	2.50 - 4.00		
Properties have been measured by producing 50 µ film with 2.5 BUR using 100% HP0322N.			
Extrusion	Nominal Value	Unit	
Melt Temperature	180 - 195	°C	

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