SABIC® LDPE HP4024W

Low Density Polyethylene

SABIC Americas, Inc.

Message:

PRODUCT DESCRIPTION:
SABIC® LDPE HP4024W is a Low Density Polyethylene grade formulated with slip and anti-block additives. It typically exhibits excellent draw down ability with higher output. Films typically exhibit good optics, low friction and low blocking.
TYPICAL APPLICATIONS:
Thin film for textile packaging, high clarity laundry bags, general purpose film.
This product is not intended for use in medical and pharmaceutical applications.

General Information			
Additive	Anti-caking agent (1800 ppm) 2 Sliding agent (600 ppm) 3		
Features	Low density Low friction coefficient smoothness Optical Anti-caking property Good stripping Compliance of Food Exposure		
Uses	Packaging Films Laundry bag		
Forms	Particle		
Processing Method	Blow film		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	0.923	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)	260	MPa	ISO 527-2
Tensile Stress (yield, 0.0500mm)	11.0	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	19.0	MPa	ISO 527-3
TD: Broken, 50 µm, blown film	16.0	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	600	%	ISO 527-3
Dart Drop Impact (50 µm, Blown Film)	100	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	> 50		ASTM D2457
60, 50.0 µm, blown film	> 100		ASTM D2457
Haze (50.0 µm, Blown Film)	< 9.0	%	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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