SABIC® LDPE HP0823N

Low Density Polyethylene

SABIC Americas, Inc.

Message:

PRODUCT DESCRIPTION:
SABIC® LDPE HPO823N 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, heat seal, optics and has good biaxial shrink properties.
TYPICAL APPLICATIONS:
Shrink film, lamination film, bags & pouches.
This product is not intended for use in medical and pharmaceutical applications.

General Information			
Features	Low density		
	Optical		
	Workability, good		
	Good heat sealability		
	Good melt strength		
	Good toughness		
	Compliance of Food Exposure		
Uses	Films		
	Laminate		
	Bags		
	Shrinkable film		
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)	0.80	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	> 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	25 - 100 micron		
Tensile Stress			ISO 527-3
MD: Broken, 50 µm, blown film	26.0	MPa	ISO 527-3
TD: Broken, 50 µm, blown film	24.0	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)	150	g	ASTM D1709
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	96.0	°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	> 40		ASTM D2457
60, 50.0 µm, blown film	> 90		ASTM D2457
Haze (50.0 µm, Blown Film)	< 8.0	%	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	170 - 220	°C	

Recommended distributors for this material

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