SABIC® LDPE HP2022J

Low Density Polyethylene

SABIC Americas, Inc.

Message:

Product Description
HP2022 series resins are Low Density Polyethylene grades suitable for general purpose packaging. They exhibit better draw down, good opticals and mechanical properties.
Typical Applications
Thin shrink film, lamination film, produce bags, textile packaging, soft goods packaging, general purpose bags with good optics and t-shirts carrier bags.
HP2022J: 750 ppm Slip & 1000 ppm Antiblock

General Information			
Additive	Anti-caking agent (1000 ppm) Sliding agent (750 ppm)		
Features	Low density smoothness Optical Anti-caking property Good stripping Compliance of Food Exposure		
Uses	Packaging Films Laminate Bags Shrinkable film		
Forms	Particle		
Processing Method	Blow film		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.922	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	0.75	g/10 min	ASTM D1238
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	30	µm	
secant modulus			ASTM D882
1% secant, MD: 30 µm, blown film	160	MPa	ASTM D882
1% secant, TD: 30 µm, blown film	180	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 30 µm, blown film	8.00	MPa	ASTM D882
TD: Yield, 30 µm, blown film	7.00	MPa	ASTM D882

MD: Broken, 30 µm, blown film	21.0	MPa	ASTM D882
TD: Broken, 30 µm, blown film	18.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 30 µm, blown film	290	%	ASTM D882
TD: Broken, 30 µm, blown film	570	%	ASTM D882
Dart Drop Impact (30 µm, Blown Film)	80	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 30 µm, blown film	180	g	ASTM D1922
TD: 30 µm, blown film	150	g	ASTM D1922
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	92.0	°C	ASTM D1525
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 30.0 µm, Blown Film)	80		ASTM D2457
Haze (30.0 µm, Blown Film)	7.0	%	ASTM D1003
Additional Information	**Nominal Value**		
Blow-up Ratio	2.00 - 3.00		
Properties have been measured by producing 30 µ film with 2.5 BUR using 100% HP2022N.			
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	160 - 180	°C	

Recommended distributors for this material

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