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SABIC® LDPE HP2025NN

LOW DENSITY POLYETHYLENE

DESCRIPTION

LDPE HP2025NN Low Density Polyethylene Resin has been designed with and optimum balance of melt strength and drawability to give excellent performance in cast film, foam, blown film and bubble film extrusion. When properly fabricated, LDPE HP2025NNdisplays: excellent processability; low neck-down (cast film); very good toughness and impact properties; and good tear strength. In foam extrusion, LDPE HP2025NN gives and ideal balance between cell growth and stabilization to allow the production of very low density products without voids. The resin Does not contain any slip or antiblock additive. LDPE HP2025NN has very low level of gels

TYPICAL APPLICATIONS

Foam.

Bubble film.

General purpose blown film.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES [1]			
Melt Flow Rate (MFR)			
at 190°C and 2.16kg	2.0	g/10 min	ASTM D1238
Density			
at 23°C	0.923	g/cm³	ASTM D792
MECHANICAL PROPERTIES [2]			
Dart Impact Strength	2	g/µm	ASTM D1709
OPTICAL PROPERTIES			
Gloss (45°)	62	‰	ASTM D2457
Haze	8	%	ASTM D1003
FILM PROPERTIES [1] [2]			
Tensile Properties			
1% secant modulus, MD	190	MPa	ASTM D882
1% secant modulus, TD	210	MPa	ASTM D882
stress at yield, MD	12	MPa	ASTM D882
stress at yield, TD	12	MPa	ASTM D882
stress at break, MD	20	MPa	ASTM D882
stress at break, TD	15	MPa	ASTM D882
strain at break, MD	300	%	ASTM D882
strain at break, TD	550	%	ASTM D882
Elmendorf Tear Strength [2]			
MD	15	g/µm	ASTM D1922
TD	12	g/µm	ASTM D1922
THERMAL PROPERTIES			
Vicat Softening Point	98.0	°C	ASTM D1525