

SABIC® LDPE HP0321NN

LOW DENSITY POLYETHYLENE

DESCRIPTION

LDPE HP0321NN Low Density Polyethylene Resin can be readily extruded using conventional blown film techniques utilizing melt temperatures between 170 and 230C. LDPE HP0321NN resin, when properly fabricated, shows a good combination of processability, stiffness and physical properties. LDPE HP0321NN has very low gel levels

TYPICAL APPLICATIONS

HP0321NN can be used for Heavy-duty bags, industrial shrink films, construction and agricultural films.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES⁽¹⁾			
Melt Flow Rate (MFR)			
at 190°C and 2.16kg	0.25	g/10 min	ISO 1133
MECHANICAL PROPERTIES^{(1) (2)}			
Dart Impact Strength	4.5	g/μm	ASTM D1709
FILM PROPERTIES^{(1) (2)}			
Tensile Properties⁽²⁾			
1% secant modulus, MD	128	MPa	ASTM D882
1% secant modulus, TD	128	MPa	ASTM D882
stress at yield, MD	11	MPa	ASTM D882
stress at yield, TD	10	MPa	ASTM D882
stress at break, MD	31	MPa	ASTM D882
stress at break, TD	30	MPa	ASTM D882
strain at break, MD	470	%	ASTM D882
strain at break, TD	530	%	ASTM D882
Elmendorf Tear Strength⁽¹⁾			
MD	2.7	g/μm	ASTM D1922
TD	4.8	g/μm	ASTM D1922
THERMAL PROPERTIES			
Vicat Softening Temperature	96.0	°C	ASTM D1525

(1) Typical values: not to be construed as specification limits.

(2) Properties have been measured by producing 50 μ film with 2.5 BUR using 100% HP0321N.