

SABIC® LDPE HP4027NN

LOW DENSITY POLYETHYLENE

DESCRIPTION

HP4027NN is a Low Density Polyethylene grade with increase density. It typically exhibits better draw down ability with high output. Films typically have excellent optics and high rigidity. HP4027NN contains no slip, no antiblock and no antioxidant additives.

TYPICAL APPLICATIONS

Thin shrink film, lamination film, packaging film for food and industrial goods, bags & pouches. These grades are typically suitable where high optics, enhance stiffness and down gauging are required.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190°C and 2.16 kg	4.0	g/10 min	ASTM D1238
OPTICAL PROPERTIES			
Haze ⁽¹⁾	5	%	ASTM D1003
Gloss			
at 45°	72	%	ASTM D2457
FILM PROPERTIES			
Tensile Properties			
stress at break, MD	19	MPa	ASTM D882
stress at break, TD	19	MPa	ASTM D882
strain at break, MD	256	%	ASTM D882
strain at break, TD	536	%	ASTM D882
stress at yield, MD	11	MPa	ASTM D882
stress at yield, TD	12	MPa	ASTM D882
1% secant modulus, MD	270	MPa	ASTM D882
1% secant modulus, TD	266	MPa	ASTM D882
Tear Resistance			
MD	10	g/μm	ASTM D1922
TD	14	g/μm	ASTM D1922
Dart Impact F50			
	3	g	ASTM D1709
THERMAL PROPERTIES			
Vicat Softening Temperature	92	°C	ASTM D1525

(1) Properties have been measured by producing 30 μm film with 2.5 BUR using 100% HP4027NN.