

POLYMERS

SABIC[®] LDPE HP0323N

Low Density Polyethylene for Blown Film

PRODUCT DESCRIPTION:

SABIC[®] HP0323N is Low Density Polyethylene grade suitable for producing heavy-duty films and contains no slip and antiblock additives. It gives outstanding toughness and optical properties in the film.

TYPICAL APPLICATIONS:

HP0322N can be used for Heavy-duty bags, industrial shrink films, construction and agricultural films.

TYPICAL PROPERTY VALUES:

PROPERTIES	Unit	Value ⁽¹⁾	Test Method
Melt Flow Rate @ 190°C & 2.16 kg load	g/10 min.	0.3	D 1238
Density @ 23°C	kg/m ³	923	D 1505
MECHANICAL PROPERTIES ⁽²⁾			
Tensile Strength @ break, MD	MPa	32	D 882
TD		30	
Tensile Elongation @ break, MD	%	235	D 882
TD		570	
Tensile Strength @ yield, MD	MPa	12	D 882
TD		12	
1% Secant Modulus, MD	MPa	200	D 882
TD		260	
Dart Impact Strength	g/ micron	2	D 1709
Tear Resistance, MD	g/ micron	2.4	D 1922
TD	g/ micron	3	D1004
OPTICAL PROPERTIES ⁽²⁾			
Haze	%	15	D 1003
Gloss @ 45°	-	38	D 2457
Thermal Properties			
Vicat Softening Point	°C	95	D 1525

(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% HP0322N.

PROCESSING CONDITIONS:

Typical molding conditions for HP0323N are:

Barrel temperature: 180 - 195°C

Blow up ratio: 2.0 – 4.0