

SABIC® LDPE HP4024WN

LOW DENSITY POLYETHYLENE

DESCRIPTION

HP4024WN is a Low Density Polyethylene grade suitable for producing general-purpose films and it gives excellent processability and optical properties with good mechanical properties. HP4024WN contains slip and antiblock additives.

TYPICAL APPLICATIONS

HP4024WN can be used for high clarity laundry bags, textile wrapping films, produce bags, zip lock bags and master batch.

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
Density			
at 23°C	923	kg/m ³	ASTM D1505
FORMULATION			
Slip agent	<input checked="" type="checkbox"/>	-	-
Anti block agent	<input checked="" type="checkbox"/>	-	-
MECHANICAL PROPERTIES			
Dart Impact Strength ⁽¹⁾	2	g/μm	ASTM D1709
OPTICAL PROPERTIES ⁽¹⁾			
Haze	6	%	ASTM D1003
Gloss			
at 45°	68	%	ASTM D2457
FILM PROPERTIES ⁽¹⁾			
Tensile Properties			
stress at break, MD	32	MPa	ASTM D882
stress at break, TD	24	MPa	ASTM D882
strain at break, MD	265	%	ASTM D882
strain at break, TD	600	%	ASTM D882
stress at yield, MD	10	MPa	ASTM D882
stress at yield, TD	10	MPa	ASTM D882
1% secant modulus, MD	277	MPa	ASTM D882
1% secant modulus, TD	224	MPa	ASTM D882
Tear Resistance			
MD	10	g/μm	ASTM D1922
TD	14	g/μm	ASTM D1922
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% HP4024WN.