POLYMERS

SABIC® LDPE HP4024 Series

Low Density Polyethylene for Blown Film

PRODUCT DESCRIPTION:

HP4024 are Low Density Polyethylene grade suitable for producing general-purpose films and it gives excellent processability and optical properties with good mechanical properties.

GRADE	SLIP (PPM)	Antiblock (PPM)	ANTIOXIDANT AVAILABILITY
HP4024N	None	None	No
HP4024W	600	1800	Yes
HP4024WN	600	1800	No
HP4024ZN	600	1200	No

TYPICAL APPLICATIONS:

HP4024 can be used for high clarity laundry bags, textile wrapping films, produce bags, zip lock bags and master batch.

TYPICAL PROPERTY VALUES:

RESIN PROPERTIES	UNIT	VALUE (1)	TEST METHOD
Melt Flow Rate @ 190°C & 2.16 kg load	g/10 min.	4.0	D 1238
Density @ 23°C	kg/m^3	923	D 1505
MECHANICAL PROPERTIES (2)			
Tensile Strength @ break, MD TD	MPa	32 24	D 882
Tensile Elongation @ break, MD TD	%	265 600	D 882
Tensile Strength @ yield, MD TD	MPa	10 10	D 882
1% Secant Modulus, MD TD	MPa	277 224	D 882
Dart Impact Strength	g/ micron	2	D 1709
Tear Resistance, MD TD	g/ micron g/ micron	10 14	D 1922 D1004
OPTICAL PROPERTIES (2)			
Haze	%	6	D 1003
Gloss @ 45°	-	68	D 2457
THERMAL PROPERTIES			
Vicat Softening Point	°C	92	D 1525

(1) Typical values; not to be construed as specification limits.
(2) Properties have been measured by producing 30 µ film with 2.5 BUR using 100% HP4024N.

PROCESSING CONDITIONS:

Typical molding conditions for HP4024N are:
Barrel temperature: 160 - 190°C
Blow up ratio: 2.0 – 3.0

HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

Detailed information is provided in the relevant Material Safety Datasheet and or Standard Food Declaration, Additional specific information can be requested via your local Sales Office.

DISCLAIMER: This product is not intended for and must not be used in any pharmaceutical/medical applications.

STORAGE AND HANDLING

Polyethylene resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.