

POLYMERS

SABIC[®] LDPE HP4027 Series

Low Density Polyethylene for Blown Film

PRODUCT DESCRIPTION:

SABIC[®] HP2027 series resins are Low Density Polyethylene grades, with increase density. It typically exhibits better draw down ability with high output. Films typically have excellent optics and high rigidity.

HP4027N: No Slip & No Antiblock

HP4027J: 700 ppm Slip & 1000 ppm Antiblock

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	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	927	D 1505
MECHANICAL PROPERTIES ⁽²⁾			
Tensile Strength @ break, MD	MPa	19	D 882
TD		19	
Tensile Elongation @ break, MD	%	256	D 882
TD		536	
Tensile Strength @ yield, MD	MPa	11	D 882
TD		12	
1% Secant Modulus, MD	MPa	270	D 882
TD		266	
Dart Impact Strength	g/micron	3	D 1709
Tear Resistance, MD	g/micron	10	D 1922
TD	g/micron	14	D1004
OPTICAL PROPERTIES ⁽²⁾			
Haze	%	5	D 1003
Gloss @ 45°	-	72	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% HP4027.

PROCESSING CONDITIONS:

Typical molding conditions for HP4027 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.

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.

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