

POLYMERS

SABIC[®] LDPE HP2023 Series

Low Density Polyethylene for Blown Film

PRODUCT DESCRIPTION:

HP2023 series resins are Low Density Polyethylene grades suitable for general-purpose packaging. They exhibit better draw down, good optical and mechanical properties.

GRADE	SLIP (PPM)	Antiblock (PPM)	ANTIOXIDANT AVAILABILITY
HP2023N	None	None	Yes
HP2023NN	None	None	No
HP2023J	500	1000	Yes
HP2023JN	500	1000	No

TYPICAL APPLICATIONS:

Thin shrink film, lamination film, produce bags, textile packaging, soft goods packaging, general-purpose bags with good optics and t-shirts carrier bags.

TYPICAL PROPERTY VALUES:

RESIN PROPERTIES	UNIT	VALUE ⁽¹⁾	TEST METHOD
Melt Flow Rate @ 190°C & 2.16 kg load	g/10 min.	2.0	D 1238
Density @ 23°C	kg/m ³	923	D 1505
MECHANICAL PROPERTIES ⁽²⁾			
Tensile Strength @ break, MD	MPa	20	D 882
TD		15	
Tensile Elongation @ break, MD	%	300	D 882
TD		588	
Tensile Strength @ yield, MD	MPa	12	D 882
TD		12	
1% Secant Modulus, MD	MPa	235	D 882
TD		271	
Dart Impact Strength	g/ micron	2	D 1709
Tear Resistance, MD	g/ micron	15	D 1922
TD	g/ micron	11	D1004
OPTICAL PROPERTIES ⁽²⁾			
Haze	%	8	D 1003
Gloss @ 45°	-	61	D 2457
THERMAL PROPERTIES			
Vicat Softening Point	°C	92	D 1525