

POLYMERS

SABIC[®] LDPE HP2022 Series

Low Density Polyethylene for Blown Film

PRODUCT DESCRIPTION:

SABIC[®] HP202 series resins are Low Density Polyethylene grades suitable for general-purpose packaging. They exhibit better draw down, good optical and mechanical properties.

HP2022N: No Slip & No Antiblock

HP2022J: 750 ppm Slip & 1000 ppm Antiblock

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:

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	922	D 1505
MECHANICAL PROPERTIES ⁽²⁾			
Tensile Strength @ break, MD	MPa	21	D 882
TD		18	
Tensile Elongation @ break, MD	%	290	D 882
TD		570	
Tensile Strength @ yield, MD	MPa	8	D 882
TD		7	
1% Secant Modulus, MD	MPa	160	D 882
TD		180	
Dart Impact Strength	g/micron	2	D 1709
Tear Resistance, MD	g/micron	6	D 1922
TD	g/micron	5	D1004
OPTICAL PROPERTIES ⁽²⁾			
Haze	%	10	D 1003
Gloss @ 45°	-	55	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% HP2022.

PROCESSING CONDITIONS:

Typical molding conditions for HP2022 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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