

# SABIC® LDPE HP7023

## LOW DENSITY POLYETHYLENE FOR INJECTION MOLDING

### DESCRIPTION

HP7023 is a Low Density Polyethylene grade that offers a unique combination of consistent processability, flexibility and toughness. Articles manufactured from HP7023 exhibits excellent impact strength, low shrinkage and good gloss.

### TYPICAL APPLICATIONS

HP7023 is intended for producing flexible injection molded articles. It is particularly suitable for closures, caps, lids, housewares articles, toys and as base resin for Masterbatch.

### TYPICAL PROPERTY VALUES

Revision 20170706

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
Melt Flow Rate @ 190°C & 2.16 kg load <sup>(1)</sup>	7.0	g/10 min	ASTM D1238
Density at 23°C	923	kg/m <sup>3</sup>	ASTM D1505
<b>MECHANICAL PROPERTIES</b>			
Tensile Strength at Break <sup>(2)</sup>	10.5	MPa	ASTM D638
Tensile Elongation at Break	80	%	ASTM D638
Tensile Strength at Yield	9.0	MPa	ASTM D638
1% Secant Modulus	180	MPa	ASTM D638
Izod Impact @ 23oC	490	J/m	ASTM D 256
Hardness (Shore D)	43	-	ASTM D2240
<b>OPTICAL PROPERTIES</b>			
Gloss @ 45°	45	-	ASTM D2457
<b>THERMAL PROPERTIES</b>			
Vicat Softening Point	89	°C	ASTM D1525
Brittleness Temperature	< -75	°C	ASTM D746

(1) Typical values; not to be construed as specification limits.

(2) Based on molded specimens.

### PROCESSING CONDITIONS

Typical molding conditions for HP7023 are:

Barrel temperature: 180 - 220°C, Mold temperature: 20 - 40°C



## 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.

## DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

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