



# SABIC® LDPE HP7022

LOW DENSITY POLYETHYLENE FOR INJECTION MOLDING

## DESCRIPTION

HP7022 is a free additive low density polyethylene offering a unique combination of consistent processability, flexibility and toughness. Articles manufactured from HP7022 exhibits excellent impact strength, low shrinkage and good gloss.

## TYPICAL APPLICATIONS

HP7022 is intended for producing flexible injection molded articles. It is particularly suited for closures, caps, lids, housewares articles, toys and as base resin for Masterbatch.

## TYPICAL PROPERTY VALUES

Revision 20201211

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 190°C and 2.16kg	7.0	g/10 min	ASTM D1238
<b>Density</b>			
at 23°C	922	kg/m <sup>3</sup>	ASTM D1505
<b>MECHANICAL PROPERTIES <sup>(1)</sup></b>			
<b>Tensile Properties</b>			
stress at break	11	MPa	ASTM D638
stress at yield	10	MPa	ASTM D638
elongation at break	188	%	ASTM D638
1% secant modulus	170	MPa	ASTM D638
<b>Izod Impact Strength</b>			
at 23°C	475	J/m	ASTM D256
<b>Hardness (Shore D)</b>	50	-	ASTM D2240
<b>OPTICAL PROPERTIES <sup>(1)</sup></b>			
<b>Haze</b>	7	%	ASTM D1003
<b>Gloss</b>			
at 45°	75	-	ASTM D2457
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Point</b>	86	°C	ASTM D1525
<b>Brittleness Temperature</b>	<-75	°C	ASTM D746

(1) Based on molded specimens.

## PROCESSING CONDITIONS

Typical molding conditions for HP7022 are:

Barrel temperature: 180 - 210°C

Mold temperature: 20 - 40°C



## 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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