

POLYMERS

SABIC[®] LDPE HP7022

Low Density Polyethylene for Injection Molding

PRODUCT DESCRIPTION:

SABIC[®] HP7022 is Low Density Polyethylene offering a unique combination of consistent processability, flexibility and toughness. Articles manufactured from HP7022 exhibit 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:

PROPERTIES	Unit	Value ⁽¹⁾	Test Method
Melt Flow Rate @ 190°C & 2.16 kg load	g/10 min.	7	D 1238
Density @ 23°C	kg/m ³	922	D 1505

MECHANICAL PROPERTIES⁽²⁾

Tensile Strength @ break	MPa	11	D 638
Tensile Elongation @ break	%	188	D 638
Tensile Strength @ yield	MPa	10	D 638
1% Secant Modulus	MPa	170	D 638
Izod Impact @ 23°C	J/m	475	D 256
Hardness (Shore D)	-	50	D 2240

OPTICAL PROPERTIES⁽²⁾

Haze	%	7	D 1003
Gloss @ 45°	-	75	D 2457

Thermal Properties

Vicat Softening Point	°C	86	D 1525
Brittleness Temperature	°C	<-75	D 746

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

(2) Based on injection molded specimens

PROCESSING CONDITIONS:

Typical molding conditions for HP7022 are:

Barrel temperature: 180 - 210°C (356 - 410°F)

Mold temperature: 20 - 40°C (70 - 104°F)

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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