

## SABIC HP7022 Low Density Polyethylene for Injection Molding

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Molded

### Material Notes:

**Product Description:** HP7022 is a 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. Information provided by SABIC.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-HP7022-Low-Density-Polyethylene-for-Injection-Molding.php](http://www.lookpolymers.com/polymer_SABIC-HP7022-Low-Density-Polyethylene-for-Injection-Molding.php)

Physical Properties	Metric	English	Comments
Density	0.922 g/cc	0.0333 lb/in <sup>3</sup>	ASTM D1505
Melt Flow	7.0 g/10 min @Load 21.6 kg, Temperature 190 °C	7.0 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	ASTM D2240
Tensile Strength at Break	11.0 MPa	1600 psi	ASTM D638
Tensile Strength, Yield	10.0 MPa	1450 psi	ASTM D638
Elongation at Break	88 %	88 %	ASTM D638
1% Secant Modulus	>= 170 MPa	>= 24700 psi	ASTM D638
Izod Impact, Notched	4.75 J/cm	8.90 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	86.0 °C	187 °F	ASTM D1525
Brittleness Temperature	<= -75.0 °C	<= -103 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	7.0 %	7.0 %	ASTM D1003
Gloss	75 %	75 %	at 45°; ASTM D2457

Processing Properties	Metric	English	Comments
Mold Temperature	20.0 - 40.0 °C	68.0 - 104 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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