

SABIC® LDPE HP7022

Low Density Polyethylene

SABIC Americas, Inc.

Message:

Product Description

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, houseware articles, toys and as base resin for masterbatch.

General Information			
Features	Food Contact Acceptable		
	Good Flexibility		
	Good Processability		
	Good Toughness		
	High Impact Resistance		
	Low Density		
	Low Shrinkage		
	Medium Gloss		
Uses	Caps		
	Closures		
	Household Goods		
	Lids		
	Masterbatch		
	Toys		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	7.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Injection Molded)	50		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 1% Secant (Injection Molded)	170	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, Injection Molded	10.0	MPa	
Break, Injection Molded	11.0	MPa	

Tensile Elongation (Break, Injection Molded)	88	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (23°C, Injection Molded)	480	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	86.0	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (45°, Injection Molded)	75		ASTM D2457
Haze (Injection Molded)	7.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Rear Temperature	180 to 210	°C	
Middle Temperature	180 to 210	°C	
Front Temperature	180 to 210	°C	
Mold Temperature	20.0 to 40.0	°C	

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