



TECHNICAL DATA SHEET

HP0722N – (LOW DENSITY POLYETHYLENE)

Product Description

HP0722N is an additive free low-density polyethylene grade suitable for producing medium duty films. It gives good toughness and optical properties in the film.

Typical Application:

HP0722N can be used for medium-duty bags, shrink films, shopping bags, lamination films and frozen food packaging.

Origin: SAUDI

➤ SABIC

<u>Properties</u>	<u>Test Method</u>	<u>Units</u>	<u>Values</u>
Polymer Properties			
Melt Flow Rate			
190°C and 2.16 Kg	ASTM D1238	g/ 10min	0.75
Density			
At 23°C	ASTM D1505	Kg/m ³	922
Mechanical Properties			
Dart Impact Strength	ASTM D1709	g/μm	2
Optical Properties			
Haze	ASTM D1003	%	11
Gloss @45°	ASTM D2457	-	60
Film Properties			
Tensile Properties			
Stress at break , MD	ASTM D882	MPa	26
Stress at break, TD	ASTM D882	MPa	24
Strain at break, MD	ASTM D882	%	235
Strain at break, TD	ASTM D882	%	560
Stress at yield, MD	ASTM D882	MPa	12
Stress at yield, TD	ASTM D882	MPa	11
1% secant modulus, MD	ASTM D882	MPa	190
1% secant modulus, TD	ASTM D882	MPa	220



<u>Tear Resistance</u>			
MD	ASTM D1922	g/ μ m	6
TD	ASTM D1922	g/ μ m	4

<u>Thermal Properties</u>			
Vicat softening temperature	ASTM D1525	$^{\circ}$ C	95

1) Properties have been measured by producing 50 μ film with 2.5 BUR using 100% HP0722NN

✧ **Processing Conditions:**

Typical processing conditions for HP0722N are:

Barrel temperature: 170 - 185 $^{\circ}$ C

Blow up ratio: 2.0 - 4.0

✧ **Medical & Food Regulations:**

HP0722N is suitable for Food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific information please contacts SABIC local representative for certificate.

✧ **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 $^{\circ}$ 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.