

TECHNICAL DATA SHEET**HP0322N – (LOW DENSITY POLYETHYLENE)****Product Description:**

HP0322N is a low-density polyethylene grade suitable for producing heavy-duty films and does not contain slip and anti-block additives. It gives outstanding toughness and optical properties in the film.

Typical application:

HP0322N can be used for heavy-duty bags, industrial shrink films, construction and agricultural films.

Origin: SAUDI

➤ SABIC

<u>Properties</u>	<u>Test Method</u>	<u>Units</u>	<u>Typical Values</u>
POLYMER PROPERTIES			
MELT FLOW RATE			
190°C and 2.16 Kg	ASTM D1238	g/ 10min	0.33
Density			
At 23°C	ASTM D1505	g/ 10min	922
Mechanical Properties			
Dart Impact Strength	ASTM D1709	g/μm	4
Optical Properties			
Haze	ASTM D1003	%	11
Gloss			
At 45°C	ASTM D2457	-	50
Film Properties			
Tensile Properties ⁽¹⁾			
Stress at break , MD	ASTM D882	MPa	31
Stress at break, TD	ASTM D882	MPa	30
Strain at break, MD	ASTM D882	%	450
Strain at break, TD	ASTM D882	%	690
Stress at yield, MD	ASTM D882	MPa	11
Stress at yield, TD	ASTM D882	MPa	10
1% secant modulus, MD	ASTM D882	MPa	190
1% secant modulus, TD	ASTM D882	MPa	210



Tear Resistance			
MD	ASTM D1922	g/μm	8
TD	ASTM D1922	g/μm	6
Thermal Properties			
Vicat softening temperature	ASTM D1525	°C	95

1) Properties have been measured by producing 50 μm film with 2.5 BUR using 100% HP0322N

✧ **Processing Conditions:**

Typical processing conditions for HP0322N are:

- Barrel temperature: 180 - 195°C,
- Blow up ratio: 2.0 – 4.0

✧ **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.