



# SABIC® LDPE HP0830NN

## LOW DENSITY POLYETHYLENE

### DESCRIPTION

SABIC® HP0830N is Low Density Polyethylene grade of medium density with improved stiffness and excellent optical properties. It typically exhibits good melt strength with good draw down ability. Films typically exhibit good toughness and good biaxial shrink properties.

### TYPICAL APPLICATIONS

Shrink film, thin industrial film, thin packaging film, bags & pouches.

### TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 190°C and 2.16 kg	0.8	g/10 min	ASTM D1238
<b>Density</b>			
at 23°C	930	kg/m <sup>3</sup>	ASTM D1505
<b>OPTICAL PROPERTIES <sup>(1)</sup></b>			
<b>Haze</b>	8.5	%	ASTM D1003
<b>Gloss</b>			
at 45°	71	-	ASTM D2457
<b>FILM PROPERTIES</b>			
<b>Tensile Properties <sup>(1)</sup></b>			
stress at break, MD	30	MPa	ASTM D882
stress at break, TD	27	MPa	ASTM D882
strain at break, MD	300	%	ASTM D882
strain at break, TD	500	%	ASTM D882
stress at yield, MD	13	MPa	ASTM D882
stress at yield, TD	13	MPa	ASTM D882
1% secant modulus, MD	350	MPa	ASTM D882
1% secant modulus, TD	550	MPa	ASTM D882
dart impact strength	2	g/μm	ASTM D1709
puncture resistance	2.5	g/μm	SABIC method
<b>Tear Resistance <sup>(1)</sup></b>			
MD	8	g/μm	ASTM D1922
TD	8	g/μm	ASTM D1922
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature</b>	100	°C	ASTM D1525