



SABIC® LDPE HP0823JN

LOW DENSITY POLYETHYLENE

DESCRIPTION

HP0823JN is a Low Density Polyethylene grade formulated with slip and antiblock additives. 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, bag & pouches. This grade enables high speed converting without sticking.

TYPICAL PROPERTY VALUES

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|-----------------------------|----------------|----------|--------------|
| POLYMER PROPERTIES | | | |
| Melt Flow Rate (MFR) | | | |
| at 190°C and 2.16 kg | 0.80 | g/10 min | ASTM D1238 |
| Density | | | |
| at 23°C | 923 | kg/m³ | ASTM D1505 |
| FORMULATION | | | |
| Slip agent | ☑ | - | - |
| Anti block agent | ☑ | - | - |
| OPTICAL PROPERTIES | | | |
| Haze ⁽¹⁾ | 10 | % | ASTM D1003 |
| Gloss | | | |
| at 45° | 55 | % | ASTM D2457 |
| FILM PROPERTIES | | | |
| Tensile Properties | | | |
| stress at break, MD | 29 | MPa | ASTM D882 |
| stress at break, TD | 25 | MPa | ASTM D882 |
| strain at break, MD | 240 | % | ASTM D882 |
| strain at break, TD | 650 | % | ASTM D882 |
| stress at yield, MD | 12 | MPa | ASTM D882 |
| stress at yield, TD | 12 | MPa | ASTM D882 |
| 1% secant modulus, MD | 208 | MPa | ASTM D882 |
| 1% secant modulus, TD | 210 | MPa | ASTM D882 |
| Tear Resistance | | | |
| MD | 10 | g/μm | ASTM D1922 |
| TD | 6 | g/μm | ASTM D1922 |
| Dart Impact F50 | 2 | g | ASTM D1709 |
| THERMAL PROPERTIES | | | |
| Vicat Softening Temperature | 95 | °C | ASTM D1525 |