



SABIC® LDPE 2200H0

LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LDPE 2200H0 is a grade with a low melt flow range and contains no additives. This grade has a good draw down ability and very good optical properties.

Application

SABIC® LDPE 2200H0 is typically used for thin film applications combining high strength and good optical properties.

Film properties

Film properties have been measured at film of 50 µm with a BUR of 3.

The film has been produced on Kiefel IBC blown film line with 200 kg/h. Die size 200 mm, die gap 0.8 mm.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

TYPICAL PROPERTY VALUES

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|------------------------------------|----------------|--------|--------------|
| POLYMER PROPERTIES | | | |
| Melt Flow Rate (MFR) | | | |
| at 190 °C and 2.16 kg | 0.33 | dg/min | ISO 1133 |
| Density | 922 | kg/m³ | ASTM D1505 |
| OPTICAL PROPERTIES | | | |
| Gloss (45°) | 57 | % | ASTM D2457 |
| Haze | 8 | % | ASTM D1003 |
| FILM PROPERTIES | | | |
| Impact strength | 30 | kJ/m | ASTM D4272 |
| Tear strength TD | 40 | kN/m | ISO 6383-2 |
| Tear strength MD | 35 | kN/m | ISO 6383-2 |
| Tensile test film | | | |
| Yield stress TD | 11 | MPa | ISO 527-3 |
| Stress at break TD | 22 | MPa | ISO 527-3 |
| Modulus of elasticity TD | 190 | MPa | ISO 527-3 |
| Stress at break MD | 27 | MPa | ISO 527-3 |
| Tensile test film | | | |
| Strain at break MD | >200 | % | ISO 527-3 |
| Strain at break TD | >500 | % | ISO 527-3 |
| Coefficient of friction | 1.0 | - | ASTM D1894 |
| Blocking | 30 | g | SABIC method |
| Re-blocking | 10 | g | SABIC method |
| THERMAL PROPERTIES | | | |
| Vicat Softening Temperature | | | |
| at 10 N (VST/A) | 98 | °C | ISO 306 |