



SUPEER™ MLLDPE 7458A

METALLOCENE C6 LLDPE
REGION AMERICAS

DESCRIPTION

SUPEER™ Metallocene Linear Low Density Polyethylene (mLLDPE) 7458A is a metallocene ethylene-hexene copolymer. It has a good processability and performs well in a wide range of general purpose and high performance cast film applications. Films produced with this grade offer good impact strength, puncture resistance, sealing and optical properties. SUPEER™ 7458A is TNPP free.

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

TYPICAL APPLICATIONS

SUPEER™ Metallocene Linear Low Density Polyethylene (mLLDPE) 7458A is typically used for stretch and lamination films.

TYPICAL PROPERTY VALUES

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|----------------|----------|--------------|
| POLYMER PROPERTIES | | | |
| Melt Flow Rate (MFR) | | | |
| at 190 °C and 2.16 kg | 4.5 | g/10 min | ASTM D1238 |
| Density | 920 | kg/m³ | ASTM D1505 |
| MECHANICAL PROPERTIES | | | |
| Dart Impact Strength | 145 | g | ASTM D1709 |
| OPTICAL PROPERTIES | | | |
| Haze | 2.3 | % | ASTM D1003 |
| Gloss (45°) | 88 | % | ASTM D2457 |
| FILM PROPERTIES | | | |
| Tensile test film ⁽¹⁾ | | | |
| Stress at break MD | 68 | MPa | ASTM D882 |
| Stress at break TD | 45 | MPa | ASTM D882 |
| Strain at break MD | 500 | % | ASTM D882 |
| Strain at break TD | 710 | % | ASTM D882 |
| Stress at yield MD | 8.4 | MPa | ASTM D882 |
| Stress at yield TD | 7.6 | MPa | ASTM D882 |
| Elmendorf Tear Strength MD | 180 | g | ASTM D1922 |
| Elmendorf Tear Strength TD | 460 | g | ASTM D1922 |
| Puncture Force | 45 | N | SABIC method |
| Puncture Energy | 4.1 | J | SABIC method |
| THERMAL PROPERTIES | | | |
| DSC test | | | |
| Melting point | 120 | °C | SABIC method |

(1) Properties have been measured on cast film of 25 µm.