

HANWHA

Metalocene LLDPE

M1810HC

Blown Film Grade

MELT INDEX **1.0**
DENSITY **0.920**

HANWHA mLLDPE M1810HC is manufactured by Unipol process and designed for lamination film and general packaging film. mLLDPE M1810HC has good low temperature sealing property and well balanced property of mechanical property, processability and optical property

This product complies with U.S. FDA regulation 21 CFR 177.1520 (c) 3.1.a.

▣ Outstanding Properties

Mechanical Property
 Optical Property
 Low Temperature Sealing Property

▣ Processing Conditions

Melt Temperature : 150 ~ 190 °C
 Blow-up Ratio : 2 ~ 3
 Optimum Gage Range : 0.03 ~ 0.1 mm

▣ Additives

Antioxidant, Processing Aid, Slip agent, Anti-blocking agent

▣ Physical Properties

| Physical Properties | Unit | Test Method | Value |
|---|--------------------|-------------|-----------|
| Melt Index | g/10min | ASTM D1238 | 1.0 |
| Density | g/cc | ASTM D1505 | 0.920 |
| Vicat Softening Point | °C | ASTM D1525 | 100 |
| Melting Point | °C | HCC Method | 120 |
| Tensile Strength at Break | kg/cm ² | ASTM D638 | 450 |
| Elongation at Break | % | ASTM D638 | 670 |
| Brittleness Temperature, F ₀ | °C | ASTM D746 | < -76 |
| Film Properties | Unit | Test Method | Value |
| Film Thickness | mm | HCC Method | 0.05 |
| Tensile Strength at Break | kg/cm ² | ASTM D882 | MD 530 |
| | | | TD 420 |
| Elongation at Break | % | ASTM D882 | MD 520 |
| | | | TD 530 |
| Elmendorf Tear Strength | Kg/cm | ASTM D1004 | MD 510 |
| | | | TD 730 |
| Dart Impact Strength | g | ASTM D1709 | 680 |
| Haze | % | ASTM D1003 | 11 |

1. These are typical properties : not to be construed as specification.
2. The value for this property is dependent on part geometry and fabrication conditions.

