

HANWHA

Linear Low Density Polyethylene

3324

Blown Film Grade

MELT INDEX **1.1**
DENSITY **0.911**

HANWHA LLDPE 3322 is manufactured by Spherilene process and designed for heavy duty film. LLDPE 3322 has well balanced property of mechanical property and processability.

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

▣ **Outstanding Properties**

Excellent Processability
 Mechanical Property

▣ **Processing Conditions**

Melt Temperature : 150 ~ 190 °C
 Blow-up Ratio : 2 ~ 3
 Optimum Gage Range : 0.03 ~ 0.2 mm

▣ **Additives**

Antioxidant, Anti-block agent, Slip agent

▣ **Physical Properties**

| Physical Properties | Unit | Test Method | Value |
|---|--------------------|-------------|-----------|
| Melt Index | g/10min | ASTM D1238 | 1.1 |
| Density | g/cc | ASTM D1505 | 0.911 |
| Vicat Softening Point | °C | ASTM D1525 | 98 |
| Melting Point | °C | HCC Method | 122 |
| Tensile Strength at Break | kg/cm ² | ASTM D638 | 200 |
| Elongation at Break | % | ASTM D638 | 960 |
| Brittleness Temperature, F ₀ | °C | ASTM D746 | < -76 |
| Film Properties | Unit | Test Method | Value |
| Film Thickness | mm | HCC Method | 0.03 |
| Tensile Strength at Break | kg/cm ² | ASTM D882 | MD 430 |
| | | | TD 350 |
| Elongation at Break | % | ASTM D882 | MD 650 |
| | | | TD 700 |
| Tensile Tear Strength | Kg/cm | ASTM D1004 | MD 150 |
| | | | TD 115 |
| Dart Impact Strength | g | ASTM D1709 | 150 |
| Haze | % | ASTM D1003 | 14 |

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.

