

# HANWHA

## Linear Low Density Polyethylene

# 3325W

Blown Film Grade, Cast Film Grade

**MELT INDEX**      **2.0**  
**DENSITY**          **0.911**

HANWHA LLDPE 3325W is manufactured by Spherilene process and designed for variety of film application such as protective film and stretch wrap film. LLDPE 3325W 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  
 Good Mechanical Property

### ■ Processing Conditions

Melt Temperature : 150 ~ 190 °C  
 Blow-up Ratio : 2 ~ 3  
 Optimum Gage Range : 0.02 ~ 0.1 mm

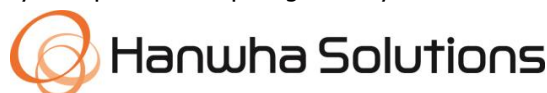
### ■ Additives

Antioxidant

### ■ Physical Properties

| Physical Properties                     | Unit               | Test Method | Value  |
|-----------------------------------------|--------------------|-------------|--------|
| Melt Index                              | g/10min            | ASTM D1238  | 2.0    |
| Density                                 | g/cc               | ASTM D1505  | 0.911  |
| Vicat Softening Point                   | °C                 | ASTM D1525  | 96     |
| Melting Point                           | °C                 | HCC Method  | 121    |
| Tensile Strength at Break               | kg/cm <sup>2</sup> | ASTM D638   | 190    |
| Elongation at Break                     | %                  | ASTM D638   | 960    |
| Brittleness Temperature, F <sub>0</sub> | °C                 | ASTM D746   | < -76  |
| Film Properties                         | Unit               | Test Method | Value  |
| Film Thickness                          | mm                 | HCC Method  | 0.02   |
| Tensile Strength at Break               | kg/cm <sup>2</sup> | ASTM D882   | MD 400 |
|                                         |                    |             | TD 350 |
| Elongation at Break                     | %                  | ASTM D882   | MD 600 |
|                                         |                    |             | TD 800 |
| Tensile Tear Strength                   | Kg/cm              | ASTM D1004  | MD 120 |
|                                         |                    |             | TD 125 |
| Dart Impact Strength                    | g                  | ASTM D1709  | 120    |
| Haze                                    | %                  | ASTM D1003  | 2.0    |

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.



Hanwha B/D, 1 Changgyo-dong, Chung-ku, Seoul, Korea. Tel : 82-2-729-2700 Fax : 82-2-729-2999