

## DATASHEET

### ASTM Property



|                |         |
|----------------|---------|
| <b>Grade</b>   | FL7100U |
| <b>Product</b> | HDPE    |

#### General Information

##### Key Features

- FL7100U is manufactured to be processed in conventional blown film equipment by CSTR Slurry process technology.
- Due to the molecular composition of the Bi-modal structure, FL7100U offers excellent processability, bubble stability and superior resistance weatherability.

##### Applications

- Agricultural Mulching Film, Etc.

| Item                                 | Measuring Method | Unit                | Value  |
|--------------------------------------|------------------|---------------------|--------|
| <b>Physical</b>                      |                  |                     |        |
| Melt Flow Index                      | ASTM D1238       | g/10min             | 0.045  |
| Density                              | ASTM D1505       | g/cm <sup>3</sup>   | 0.956  |
| <b>Mechanical</b>                    |                  |                     |        |
| Tensile Stress (Yield)               | ASTM D638        | kgf/cm <sup>2</sup> | 250    |
| Elongation (Break)                   | ASTM D638        | %                   | ≥500   |
| Flexural Modulus                     | ASTM D790        | kgf/cm <sup>2</sup> | 10,000 |
| <b>Impact</b>                        |                  |                     |        |
| Izod Impact Strength(notched) (23°C) | ASTM D256        | kgf·cm/cm           | > 30   |
| <b>Thermal</b>                       |                  |                     |        |
| VICAT Softening Temperature          | ASTM D1525       | °C                  | 124    |
| <b>Film Properties<sup>2</sup></b>   |                  |                     |        |
| Tensile Stress (Break) MD            | ASTM D882        | kgf/cm <sup>2</sup> | 670    |
| TD                                   | ASTM D882        | kgf/cm <sup>2</sup> | 630    |
| Elongation (Break) MD                | ASTM D882        | %                   | 330    |
| TD                                   | ASTM D882        | %                   | 500    |
| Tear Resistance MD                   | ASTM D1004       | kgf/cm              | 150    |
| TD                                   | ASTM D1004       | kgf/cm              | 230    |

1. Physical Properties : these are not to be construed as specifications
2. Φ50mm Extruder, 20μm Thickness, BUR 4, FLH 10

\* The last update date : 2021/10/01