

# HDPE 8800U

YUZEX 8800U provides stronger film than ones made from competitive HDPE film grades and this grade is bimodal type resin. Therefore YUZEX 8800U shows superior stability in film extrusion to that of competitive HDPE film resins and gives excellent appearance to its film. YUZEX 8800U has high molecular weight polymer and this make excellent mechanical properties compared with competitive HDPE film grades. YUZEX 8800U especially has a good UV stability.

## Application / Use Case

Film / Agriculture, Mulching Film

## Characteristic

UV Stability, Tear Strength, Impact Strength

## Specification

|            | Specification | Unit              | Test Method |
|------------|---------------|-------------------|-------------|
| Density    | 0.956         | g/cm <sup>3</sup> | ASTM D1505  |
| Melt Index | 0.04          | g/10min           | ASTM D1238  |

## Physical Properties

|                               | 측정값 | Unit               | Test Method |
|-------------------------------|-----|--------------------|-------------|
| Film Thickness                | 8   | μm                 | ASTM D374   |
| Tensile Strength at Yield(MD) | -   | kg/cm <sup>2</sup> | ASTM D882   |
| Tensile Strength at Yield(TD) | 380 | kg/cm <sup>2</sup> | ASTM D882   |
| Tensile Strength at Break(MD) | 890 | kg/cm <sup>2</sup> | ASTM D882   |
| Tensile Strength at Break(TD) | 730 | kg/cm <sup>2</sup> | ASTM D882   |

ISO 9001 Certified



|                             |       |                    |            |
|-----------------------------|-------|--------------------|------------|
| Elongation at Break(MD)     | 300   | %                  | ASTM D882  |
| Elongation at Break(TD)     | 560   | %                  | ASTM D882  |
| Dart Impact Strength        | 111   | g                  | ASTM D1709 |
| Haze                        | 69    | %                  | ASTM D1003 |
| Elmendorf Tear Strength(MD) | <1    | g/μm               | ASTM D1922 |
| Elmendorf Tear Strength(TD) | 14    | g/μm               | ASTM D1922 |
| ESCR                        | >600  | hr                 | ASTM D1693 |
| Flexural Modulus            | 10000 | kg/cm <sup>2</sup> | ASTM D790  |
| Softening Point (Vicat)     | 124   | °C                 | ASTM D1525 |

● **Notes:**

Film Extrusion Condition: Screw Diameter 50mmΦ / Die Diameter: 750mm / Die Gap: 1.0mm

Temp: Screw 170-190-200°C / Die 200-200°C

These are **typical properties** only, and are **not to be construed as specifications**. The physical properties are highly dependent on the manufacturing conditions. So customers should performances by their own tests

