

HDPE

F120A

HDPE for Film

Application

Film, General film, Shopping bag, Food packaging film

Characteristics

Excellent processability, Excellent thin film processability, High speed processability, Die build-up, Low Fisheye, Excellent mechanical properties

Physical properties

| Item | Test Method | Unit | Typical Value |
|-----------------------------|-------------|--------------------|---------------|
| Melt index | ASTM D1238 | g/10min | 0.05 |
| Density | ASTM D1505 | g/cm ³ | 0.956 |
| Tensile strength (at yield) | ASTM D638 | kg/cm ² | 230 |
| Tensile strength(at break) | ASTM D638 | kg/cm ² | 300 |
| Elongation (at break) | ASTM D638 | % | >500 |
| Flexural modulus | ASTM D790 | kg/cm ² | 10000 |
| Melt temperature | HTC Method | °C | 129 |
| Brittleness temperature | ASTM D746 | °C | <-80 |

Note) Data shown above are representative values for reference purposes only, and not to be construed as specifications.

Film properties

| Item | Test Method | Unit | Typical value |
|--------------------------------|-------------|--------------------|---------------|
| Thickness | - | μm | 22 |
| Tensile strength at break (MD) | ASTM D882 | kg/cm ² | 650 |
| Tensile strength at break (TD) | ASTM D882 | kg/cm ² | 550 |
| Elongation at break (MD) | ASTM D882 | % | 440 |
| Elongation at break (TD) | ASTM D882 | % | 640 |
| Elmendorf tear strength (MD) | ASTM D1922 | kg/cm ² | 7 |
| Elmendorf tear strength (TD) | ASTM D1922 | kg/cm ² | 260 |
| Dart drop impact strength | ASTM D1709 | g | >200 |

Note) The above data is a representative value of the guide material and can be changed according to the processing conditions with a Φ50mm extruder, expansion ratio of 5.0, and thickness of 20 μm.

Certification

Hanwha TotalEnergies Petrochemical F120A satisfies the 21 CFR 177.1520 regulations, the food packaging standards of the U.S. Food and Drug Administration (FDA).
For further inquiries, please contact Customer Technical Service.

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