

## DATASHEET

### ASTM Property



|                |                            |
|----------------|----------------------------|
| <b>Grade</b>   | SY-130                     |
| <b>Product</b> | Polypropylene, Homopolymer |

#### General Information

##### Key Features

- Stretched products & Flat yarn application
- Formability, Stiffness, Extensibility

##### Applications

- Woven bag, Tape, Rope, Fishing net

| Item                                                  | Measuring Method | Unit                | Value  |
|-------------------------------------------------------|------------------|---------------------|--------|
| <b>Physical Properties</b>                            |                  |                     |        |
| Melt Flow Index (230°C, 2.16kg)                       | ASTM D1238       | g/10min             | 4.0    |
| Density                                               | ASTM D792        | g/cm <sup>3</sup>   | 0.9    |
| <b>Mechanical Properties</b>                          |                  |                     |        |
| Tensile Stress (Yield)                                | ASTM D638        | kgf/cm <sup>2</sup> | 330    |
| Tensile Strain (Break)                                | ASTM D638        | %                   | ≥100   |
| Flexural Modulus                                      | ASTM D790        | kgf/cm <sup>2</sup> | 15,000 |
| Rockwell Hardness                                     | ASTM D785        | R                   | 101    |
| <b>Impact Properties</b>                              |                  |                     |        |
| Izod Impact Strength (notched, 23°C)                  | ASTM D256        | kgf·cm/cm           | 3.9    |
| <b>Thermal Properties</b>                             |                  |                     |        |
| Heat Deflection Temperature (4.6kgf/cm <sup>2</sup> ) | ASTM D648        | °C                  | 109    |
| VICAT Softening Temperature                           | ASTM D1525       | °C                  | 151    |

1. Physical Properties : these are not to be construed as specifications
2. ISO 9001, 14001, /TS 16949

\* The last update date : 2022/11/18