

## DATASHEET

### ASTM Property



|                |                            |
|----------------|----------------------------|
| <b>Grade</b>   | Y-120                      |
| <b>Product</b> | Polypropylene, Homopolymer |

#### General Information

##### Key Features

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

##### Applications

- Woven bag, Container bag

| Item | Measuring Method | Unit | Value |
|------|------------------|------|-------|
|------|------------------|------|-------|

#### Physical Properties

|                                 |            |                   |     |
|---------------------------------|------------|-------------------|-----|
| Melt Flow Index (230°C, 2.16kg) | ASTM D1238 | g/10min           | 1.0 |
| Density                         | ASTM D792  | g/cm <sup>3</sup> | 0.9 |

#### Mechanical Properties

|                        |           |                     |        |
|------------------------|-----------|---------------------|--------|
| Tensile Stress (Yield) | ASTM D638 | kgf/cm <sup>2</sup> | 370    |
| Tensile Strain (Break) | ASTM D638 | %                   | ≥100   |
| Flexural Modulus       | ASTM D790 | kgf/cm <sup>2</sup> | 16,500 |
| Rockwell Hardness      | ASTM D785 | R                   | 103    |

#### Impact Properties

|                                      |           |           |     |
|--------------------------------------|-----------|-----------|-----|
| Izod Impact Strength (notched, 23°C) | ASTM D256 | kgf·cm/cm | 4.7 |
|--------------------------------------|-----------|-----------|-----|

#### Thermal Properties

|                                                       |            |    |     |
|-------------------------------------------------------|------------|----|-----|
| Heat Deflection Temperature (4.6kgf/cm <sup>2</sup> ) | ASTM D648  | °C | 117 |
| VICAT Softening Temperature                           | ASTM D1525 | °C | 153 |

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

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