

## DATASHEET

### ASTM Property



|                |                                 |
|----------------|---------------------------------|
| <b>Grade</b>   | SFI-553                         |
| <b>Product</b> | Polypropylene, Random Copolymer |

| General Information                                   |                                                                  |                     |       |
|-------------------------------------------------------|------------------------------------------------------------------|---------------------|-------|
| Key Features                                          | - Suitable for inflation PP film products                        |                     |       |
|                                                       | - Excellent transparency, slipperiness and film opening property |                     |       |
|                                                       | - Containing slip and anti-blocking agent                        |                     |       |
| Applications                                          | Cloth packaging, Food packaging                                  |                     |       |
| Item                                                  | Measuring Method                                                 | Unit                | Value |
| Physical Properties                                   |                                                                  |                     |       |
| Melt Flow Index (230°C, 2.16kg)                       | ASTM D1238                                                       | g/10min             | 7.0   |
| Density                                               | ASTM D792                                                        | g/cm <sup>3</sup>   | 0.9   |
| Mechanical Properties                                 |                                                                  |                     |       |
| Tensile Stress (Yield)                                | ASTM D638                                                        | kgf/cm <sup>2</sup> | 230   |
| Tensile Strain (Break)                                | ASTM D638                                                        | %                   | >500  |
| Flexural Modulus                                      | ASTM D790                                                        | kgf/cm <sup>2</sup> | 7,800 |
| Rockwell Hardness                                     | ASTM D785                                                        | R                   | 82    |
| Impact Properties                                     |                                                                  |                     |       |
| Izod Impact Strength (notched, 23°C)                  | ASTM D256                                                        | kgf·cm/cm           | 10    |
| Thermal Properties                                    |                                                                  |                     |       |
| Melting Temperature                                   | LC Method                                                        | °C                  | 135   |
| Heat Deflection Temperature (4.6kgf/cm <sup>2</sup> ) | ASTM D648                                                        | °C                  | 72    |
| Film Properties                                       |                                                                  |                     |       |
| Haze                                                  | ASTM D1003                                                       | %                   | <2.5  |

1. Physical Properties : these are not to be construed as specifications
2. Measured on 30μm mono-layer CPP film made of LOTTE CHEMICAL's cast film grade
3. ISO 9001, 14001, /TS 16949

\* The last update date : 2022/09/21