

# Product Data Sheet

## SECCO S1003



### Polypropylene, Homopolymer

#### Product Description

**S1003** is a narrow molecular weight distribution homopolymer polypropylene resin with high stiffness, easy processing performance and wide application range.

#### Typical Applications

Processing Method: Extrusion molding, Injection molding, film blowing

Application: Straw, rope, brush, woven bag, packing tape, container bag, carpet backing, artificial turf, BOPP, thermoforming and various small-sized injection molding parts.

#### Typical Property Values

Properties	Typical values	Units	Test methods
<b>Physical Properties</b>			
Melt Flow Rate(230°C/2.16 kg)	3.0	g/10min	GB/T 3682.1
Density	0.90	g/cm <sup>3</sup>	GB/T 1033.2
Melting Temperature(DSC)	164	°C	GB/T 19466.3
<b>Mechanical Properties</b>			
Tensile Strength at Yield (50 mm/min)	35	MPa	GB/T 1040.2
Tensile Strength at Break (50 mm/min)	22	MPa	GB/T 1040.2
Tensile Elongation at Break (50 mm/min)	500	%	GB/T 1040.2
Flexural Modulus (2 mm/min)	1400	MPa	GB/T 9341
Charpy Impact Strength, notched (23°C)	4.0	kJ/m <sup>2</sup>	GB/T 1043.1
Rockwell Hardness	108	R-Scale	GB/T 3398.2
<b>Thermal Properties</b>			
Heat Deflection Temperature (0.45 MPa)	90	°C	GB/T 1634.2
Vicat Softening Point (A <sub>50</sub> )	151	°C	GB/T 1633

#### Notes

\* These are typical properties only and should not be construed as specifications

\* Recommended processing temperature: 190 ~ 250°C

\* The information in this document was published in November 2022. When an updated version is released, the previous version of the same grade is automatically invalid

**Disclaimer:** All information provided in this document, whether it is data, typical applications, product features, etc., is put forward on the basis of research results and is believed to be reliable; However, it is not a guarantee for this product. Users and other users should make their own judgments on whether this product and the contents listed in this document are suitable for its specific use, and be responsible for the risks, results and impacts generated, and ensure that its disposal complies with relevant regulations and other government regulations. Under no circumstances will SECCO be responsible for any consequences arising from the use of the above information or the application and processing of this product.

## **Product Compliance**

**S1003** complies with GB 4806.6-2016 *National Food Safety Standard-Plastic Resin used in Food-contact*, FDA regulation 21 CFR 177.1520(c) 1.1a and the RoHS Directive 2011/65/EU. Additives those do not comply with national regulations, such as phthalates, are not intentionally used in **S1003**. However, the customer is still responsible for determining whether the fabricated product is in compliance with applicable laws and regulations.

## **Storage**

The storage area for polypropylene resin should be dry, and preferable to normal temperature. The resin must be protected from direct sunlight, and heat resource. SECCO would not give warranty to bad storage conditions which may lead to color change, bad odor and inadequate product performance. It is generally recommended to convert all materials latest within 6 months from the date of delivery.

## **Safety and Material Handling**

SECCO polypropylene resin has a very low degree of toxicity under normal conditions of use. For more detailed information, please contact your SECCO representative or the local suppliers to get the Material Safety Data Sheet (MSDS) for Homopolymer Polypropylene.

**For additional technical and sales assistance, please contact**

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