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# **SECCO GPPS251**

# **General Purpose Polystyrene Resin**

### **Product description**

*GPPS251* exhibits high mechanical strength, high melt strength and high heat resistance. It gives the products good transparency, excellent gloss and dimension stability.

## **Product applications**

Advertisement sheet, XPS, foamed trays, vacuum cup, beads for decoration, cosmetics packaging.

### **Product characteristics**

**Typical properties** 

Properties	Test method	Test condition	Units	Typical values
Melt flow rate	GB/T 3682.1	200°C/5kg	g/10min	2.4
Tensile stress at break	GB/T 1040.2	50mm/min	MPa	54
Nominal tensile strain at break	GB/T 1040.2	50mm/min	%	2
Flexural modulus	GB/T 9341	2mm/min	MPa	3100
Flexural strength	GB/T 9341	2mm/min	MPa	88
Charpy unnoteched impact strength	GB/T 1043.1	23℃/1eU	kJ/m²	10
Vicat softening temperature	GB/T 1633	B <sub>50</sub>	$^{\circ}\!\mathbb{C}$	102
Heat distortion temperature	GB/T 1634.2	0.45MPa	$^{\circ}$ C	95
Density	ISO1183-1		kg/ m³	1040
Transmissivity	GB/T 2410		%	90
Water absorption	ISO62		%	<0.1
UL flammability	UL 94		Class	94HB
Mold shrinkage	GB/T 17037.4		%	0.3-0.4

<sup>1)</sup> Values given are typical and should not be interpreted as specification.

#### **Additional information**

### **Product safety compliance**

**GPPS251** complies with the National Food Safety Standard GB 4806.6-2016 for Plastic Resin used in Food-contac, FDA regulation CFR 177.1640(c) (1) and the ROHS Directive: Amending Delegated Directive(EU)2015/863 to Directive 2011/65/EU Annex II. **GPPS251** has obtained the UL certificate of the USA. However, the customer is still responsible for determining whether the fabricated product is in compliance with applicable laws and regulations.

#### Safety and material handling

SECCO polystyrene resin has a very low degree of toxicity under normal conditions of use. Please contact your SECCO representative or the local suppliers for more detailed information and/or Material Safety Data Sheet (MSDS) for the specific grade of interest.

The data contained in this document are based on our typical testing, and relate only to the named product or materials when not in combination with any other product or materials. Customers and other users are responsible for determining whether products and the information in this document are appropriate for their use and for ensuring that disposal practices are in compliance with applicable laws and other governmental enactments. SECCO does not accept any liability whatsoever arising from the use of this information or the use, application or processing of any product described herein.

Typical applications of GPPS251 are extruded sheets, foam sheets and injection molding. It is suggested that the melt extrusion temperature should be set at 180°C-240°C, injection temperature at 180°C-250°C and mould temperature at 30°C-60°C.