

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 unnotched impact strength	GB/T 1043.1	23°C/1eU	kJ/m ²	10
Vicat softening temperature	GB/T 1633	B ₅₀	°C	102
Heat distortion temperature	GB/T 1634.2	0.45MPa	°C	95
Density	ISO1183-1		kg/ m ³	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

- 1) Values given are typical and should not be interpreted as specification.
- 2) 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.

Additional information

Product safety compliance

GPPS251 complies with the National Food Safety Standard GB 4806.6-2016 for Plastic Resin used in Food-contact, 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.