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## SECCO GPPS251

### General Purpose Polystyrene Resin

#### Product description

**GPPS251** retains high mechanical strength & good mould release, allowing excellent transparency and gloss.

#### Product characteristics

##### Typical properties

Properties	Test method	Test condition	Units	Typical values
Melt flow rate	ISO1133	200°C/5kg	g/10min	2.4
Tensile strength at yield	ISO527-2	50mm/min	MPa	53
Tensile strength at break	ISO527-2	50mm/min	%	2
Tensile elongation at break	ISO178	2mm/min	MPa	3200
Flexural modulus	ISO178	2mm/min	MPa	82
Flexural strength	ISO179	23°C/1eU	kJ/m <sup>2</sup>	10
Notched Izod impact strength	ISO306	B50/oil	°C	102
Vicat softening temperature	ISO75-2	1.8MPa	°C	80
Heat distortion temperature	ISO1183		kg/ m <sup>3</sup>	1040
Rockwell hardness	ISO13468-1		%	90
Density	ISO62			<0.1
Water absorption	UL 94		Class	94HB
UL flammability	ISO294-4		%	0.4-0.6

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

##### Application

Advertisement sheet, foam sheet, vacuum cup, beads for decoration, cosmetics packaging.

##### Product compliance

**GPPS251** complies with the national hygienic standard for polystyrene resin used as food packaging, FDA regulation CFR 177.1640(c) (1) and the RoHS Directive 2002/95/EC. **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.