

Shanghai SECCO Petrochemical Co., Ltd.
 Contact address: 30F, A Building, Far East International Plaza
 No.319, Xian Xia Road,
 Shanghai 200051 P.R. China
 Tel: (021) 52574688-3333 (customer service) Fax: (021) 62783737 (customer service)
 Email: customerservice@secco.com.cn Website: <http://www.secco.com.cn>

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SECCO HIPS622

High Impact Polystyrene Resin

Product description

HIPS622 exhibits good melt flowability, heat resistance and stiffness. It is easy for molding and coloring.

Product applications

TV shell, AC parts, housewares, toys, cable tray, extruded sheet, etc.

Product characteristics

Typical properties

Properties	Test method	Test condition	Units	Typical values
Melt flow rate	GB/T 3682.1	200°C/5kg	g/10min	4.5
Tensile stress at yield	GB/T 1040.2	50mm/min	MPa	28
Tensile stress at break	GB/T 1040.2	50mm/min	MPa	26
Nominal Tensile strain at break	GB/T 1040.2	50mm/min	%	45
Flexural modulus	GB/T 9341	2mm/min	MPa	2100
Flexural strength	GB/T 9341	2mm/min	MPa	48
Notched Izod impact strength	GB/T 1843	23°C/A	kJ/m ²	12
Vicat softening temperature	GB/T 1633	B ₅₀	°C	92
Heat distortion temperature	GB/T 1634.2	0.45MPa	°C	87
Rockwell hardness	GB/T 3398.2	--	R-Scale	107
Density	ISO1183-1	--	kg/ m ³	1040
Water absorption	ISO62	--	%	<0.1
UL flammability	UL 94	--	Class	94HB
Mold shrinkage	GB/T 17037.4	24hour	%	0.4-0.6

- 1) Values given are typical and should not be interpreted as specification.
- 2) Typical application of HIPS622 is injection molding. It is suggested that the melt injection temperature should be set at 180°C-250°C, and mould temperature at 30°C-70°C.

Additional information

Product safety compliance

HIPS622 complies with the National Food Safety Standard GB 4806.6-2016 for plastic resin used in food-contact parts, FDA regulation CFR 177.1640(c) (1) and the ROHS Directive: Amending Delegated Directive(EU)2015/863 to Directive 2011/65/EU Annex II. *HIPS622* 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.