

SECCO HIPS532

High Impact Polystyrene Resin

Product description

HIPS532 exhibits good melt flowability, excellent deep draw thermalforming capacity and good low temperature performance. Low gel content and residual monomers makes it very suitable for food and electronic packaging.

Products applications

Yoghurt bottle, electronic product pallet, single use drinking cup, vegetable & meat pallet, cake box, 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	25
Tensile stress at break	GB/T 1040.2	50mm/min	MPa	26
Nominal Tensile strain at break	GB/T 1040.2	50mm/min	%	50
Flexural modulus	GB/T 9341	2mm/min	MPa	1900
Flexural strength	GB/T 9341	2mm/min	MPa	42
Notched Izod impact strength	GB/T 1843	23°C/A	kJ/m ²	11
Vicat softening temperature	GB/T 1633	B ₅₀	°C	91
Heat distortion temperature	GB/T 1634.2	0.45MPa	°C	86
Rockwell hardness	GB/T 3398.2	--	R-Scale	104
Density	ISO1183-1	--	kg/ m ³	1040
Water absorption	ISO62	--	%	<0.1
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 applications of HIPS532 are co-extruded sheets. It is suggested that the melt extrusion temperature should be set at 180°C-250°C.

Additional information

Product safety compliance

HIPS532 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. But 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.