

## SECCO HIPS632E

### High Impact Polystyrene Resin

#### Product description

*HIPS632E* is a high impact and environmental stress crack resistance(ESCR) grade. It possesses excellent environmental stress crack resistance and retains good mechanical properties at low temperatures.

*HIPS632E* is designed for extrusion and thermoforming applications.

#### Product applications

Refrigerator liners, fatty food packaging and other ESCR required sheet.

#### Product characteristics

##### Typical properties

Properties	Test method	Test condition	Units	Typical values
Melt flow rate	GB/T 3682.1	200°C/5kg	g/10min	3.6
Tensile stress at yield	GB/T 1040.2	50mm/min	MPa	25
Tensile stress at break	GB/T 1040.2	50mm/min	MPa	25
Nominal Tensile strain at break	GB/T 1040.2	50mm/min	%	60
Flexural modulus	GB/T 9341	2mm/min	MPa	1600
Flexural strength	GB/T 9341	2mm/min	MPa	38
Notched Izod impact strength	GB/T 1843	23°C/A	kJ/m <sup>2</sup>	11
Vicat softening temperature	GB/T 1633	B <sub>50</sub>	°C	90
Heat distortion temperature	GB/T 1634.2	0.45MPa	°C	85
Rockwell hardness	GB/T 3398.2	--	R-Scale	93
Density	ISO1183-1	--	kg/ m <sup>3</sup>	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 applications of HIPS632E are co-extruded sheets. The recommended extrusion temperature is 180°C-250°C..

#### Additional information

##### Product safety compliance

*HIPS632E* complies with the National Food Safety Standard GB 4806.6-2016 for plastic resin used in food-contact packaging, FDA regulation CFR 177.1640(c) (1) and the ROHS Directive: Amending Delegated Directive(EU)2015/863 to Directive 2011/65/EU Annex II. *HIPS632E* 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.