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SECCO HIPS532

High Impact Polystyrene Resin

Product description

HIPS532 retains good fluidity and excellent toughness.

Product characteristics

Typical properties

Properties	Test method	Test condition	Units	Typical values
Melt flow rate	ISO1133	200°C/5kg	g/10min	4.5
Tensile strength at yield	ISO527-2	50mm/min	MPa	23
Tensile strength at break	ISO527-2	50mm/min	MPa	24
Normal Tensile elongation at break	ISO527-2	50mm/min	%	50
Flexural modulus	ISO178	2mm/min	MPa	1900
Flexural strength	ISO178	2mm/min	MPa	42
Notched Izod impact strength	ISO180	23°C/1eA	kJ/m ²	10
Vicat softening temperature	ISO306	B50/oil	°C	90
Heat distortion temperature	ISO75-2	1.8MPa	°C	72
Rockwell hardness	ISO2039-2	--	R-Scale	104
Density	ISO1183	--	kg/ m ³	1040
Water absorption	ISO62	--	%	<0.1
Mold shrinkage	ISO294-4	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

Application

Yoghourt bottle, electronic product pallet, one-way plastic drinking cup, vegetable & meat pallet and cake box.

Product compliance

HIPS532 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. 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.

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.