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SECCO HIPS514

High Impact Polystyrene Resin

Product description

HIPS514 combines excellent fluidity with medium impact strength.

Product characteristics

Typical properties

Properties	Test method	Test condition	Units	Typical values
Melt flow rate	ISO1133	200°C/5kg	g/10min	8.8
Tensile strength at yield	ISO527-2	50mm/min	MPa	25
Tensile strength at break	ISO527-2	50mm/min	MPa	20
Normal Tensile elongation at break	ISO527-2	50mm/min	%	45
Flexural modulus	ISO178	2mm/min	MPa	2200
Flexural strength	ISO178	2mm/min	MPa	40
Notched Izod impact strength	ISO180	23°C/1eA	kJ/m ²	11
Vicat softening temperature	ISO306	B50/oil	°C	85
Heat distortion temperature	ISO75-2	1.8MPa	°C	70
Rockwell hardness	ISO2039-2	--	R-Scale	105
Density	ISO1183	--	kg/ m ³	1040
Water absorption	ISO62	--	%	<0.1
UL flammability	UL 94	--	Class	94HB
Mold shrinkage	ISO294-4	24hour	%	0.4-0.6

- 1) Values given are typical and should not be interpreted as specification.
- 2) Typical application of "HIPS514" is general injection molding. It is suggested that the melt injection temperature should be set at 160°C-240°C, injection pressure at 30-130MPa and mould temperature at 30°C-60°C.

Additional information

Application

Suitable for plastic shell of small household electronic appliances, stationery, housewares, toys, etc.

Product compliance

HIPS514 complies with the FDA regulation CFR 177.1640(c) (1) and the RoHS Directive 2002/95/EC.

HIPS514 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.