

Styroflex® 656 C S/B/S, Copolymer



PRODUCT DESCRIPTION

Styrolux® 656 C is a clear styrene-butadiene copolymer (SBC) with enhanced flow properties. It is used almost exclusively for injection molding of rigid, tough parts requiring highest levels of clarity and surface gloss. Styrolux® 656 C is sterilizable by gamma-rays and offers good hinge properties.

Major applications include: molded containers and bottles,toys, displays, appliance housings, overcaps, hangers.

PHYSICAL FORM AND STORAGE

Styrolux® is supplied in pellet form and should be kept in its original containers in cool, dry place. Avoid direct exposure to sunlight. Styrolux® can by stored in silos at temperatures well below 45 °C.

PRODUCT SAFETY

During processing of Styrolux® small quantities of styrene monomer may be released into the atmosphere. At styrene vapour concentrations below 20 ppm no negative effects on health are expected. In our experience, the concentration of styrene does not exceed 1 ppm in well ventilated workplaces - that is where five to eight air changes per hour are made.

Styrolux® complies with the requirements of the FDA regulation 21 CRF 177.1640 and with most of the food regulations in European countries. The suitability of the articles for the intended food-contact application, the influence on taste and odor of the contents, global migration as well as adherence to specific limits has to be tested by the manufacturer or user in every case.

For detailed written confirmation on the current status of Styrolux® in respect to food legislation and also on the laws/regulations in other countries, please contact our Styrenics Infopoint at phone +49 621 60 - 41446, e-Mail: styrenics.infopoint@basf.com

For safety informationen please refer to our Material Safety Data Sheet for this product.

NOTE

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. In order to check the availability of products please contact us or our sales agency.

BASF Aktiengesellschaft 67056 Ludwigshafen, Germany



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Typical values for uncoloured product at 23 °C 1)	Test method 2)	Unit	Values3)
PROPERTIES			
Density Water absorption, equilibrium in water at 23°C Moisture absorption, equilibrium 23°C/50% r.h.	ISO 1183 similar to ISO 62 similar to ISO 62	kg/m³ % %	1020 0.07 0.07
PROCESSING			<u>'</u>
Processing: Injection moulding (M), Extrusion (E), blow moulding (B) Melt volume-flow rate MVR 200°C/5 kg Melt temperature, injection moulding Mould temperature, injection moulding	ISO 1133	cm³/10min °C °C	M 16 180 – 250 30 – 50
FLAMMABILITY			
UL 94 rating at 1.6 mm thickness UL 94 rating at 3.18 mm thickness	UL 94 UL-94	class class	HB HB
MECHANICAL PROPERTIES			
Tensile modulus Stress at yield Yield strain Nominal strain at break Flexural modulus Flexural strength Charpy unnotchen impact strength (23°C) Charpy notched impact strength (23°C) Izod notched impact strength 1A (23°C) Izod notched impact strength 1A (-30°C) Izod notched impact strength (23°C) Shore D hardness	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 178 ISO 179/1eU ISO 179/1eA ISO 180/A ISO 180/A ASTM D 256 ISO 868	MPa MPa % % MPa MPa kJ/m² kJ/m² kJ/m² j/m	1800 35 2.4 20 1900 48 25 2 3.5 3 21 72
THERMAL PROPERTIES			
Vicat-softening-temperature VST/A/50 Vicat-softening-temperature VST/B/50 Deflection temperature at 1,8 MPa (HDT A) HDT B (0.45 MPa)	ISO 306 ISO 306 ISO 75-1/-2 ISO 75-1/-2	°C °C °C	85 63 67 77
ELECTRICAL PROPERTIES			
Relative permittivity (100Hz) Relative permittivity (1 MHz) Volume resistivity Surface resitivity Electric strength K20/P50	IEC 60250 IEC 60250 IEC 60093 IEC 60093 IEC 60243-1	- Ohm*m Ohm kV/mm	2.5 2.5 >1E13 1E15 140
OPTICAL PROPERITES			
Transparency, d = 2 mm Haze	DIN 5036-3 DIN 5036-3	% %	80 1.5

- 1) If the product definition doesn't state otherwise.
- 2) Specimens according to CAMPUS.3) The asterisk symbol '*' signifies inapplicable properties.

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