

Styrolux S

Styrene Butadiene Copolymer (SBC)

TECHNICAL DATASHEET

DESCRIPTION

Styrolux® S is a new developmental, clear styrene-butadiene copolymer (SBC) designed specifically for blending with Styrolux® T in order to enable high performance film extrusion and shrink film applications. As Styrolux® S is blended with Styrolux® T it increases the stiffness of the film and improves the storage stability of film reels (reduced natural shrinkage).

FEATURES

- Excellent clarity
- High stiffness
- Very low gel content

APPLICATIONS

- Blend component for Styrolux T
- Shrink sleeve applications
- Label film

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate, 200 °C/5 kg	ISO 1133	cm³/10 min	12
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m²	2
Charpy Unnotched, 23 °C	ISO 179/1eU	kJ/m²	14
Tensile Strain at Yield, 23 °C	ISO 527	%	2
Nominal Strain at Break, 23 °C	ISO 527	%	2.5
Tensile Modulus	ISO 527	MPa	2900
Flexural Strength, 23 °C	ISO 178	MPa	75
Flexural Modulus, 23 °C	ISO 178	MPa	3000
Hardness, Shore D	ISO 868	-	83
Tensile Stress at Yield, 23 °C	ISO 527	MPa	45
Tensile Strain at Break, 23 °C	ISO 527	%	2
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	64
Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°C	70
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	59
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	62

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Property, Test Condition	Standard	Unit	Values
Optical Properties			
Light Transmission at 550 nm	ASTM D 1003	%	90
Other Properties			
Water Absorption, Saturated at 23 °C	ISO 62	%	0.07
Density	ISO 1183	kg/m ³	1020

Typical values for uncolored products

Please note that all processing data stated are only indicative and may vary depending on the individual processing complexities.
Please consult our local sales or technical representatives for details.

SUPPLY FORM

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 be 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 vapor 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. For safety information please refer to our Material Safety Data Sheet for this product.

DISCLAIMER

The above mentioned data are accurate to the best of our knowledge. They are based upon reputable labs and industry standard testing methods. These are only typical values and actual product specification may deviate at industrial range. Therefore, no data in this technical data sheet shall constitute a warranty or representation regarding product features, fitness of the product for a specific purpose or application or its processability. INEOS Styrolution disclaims all liability in connection therewith. The customer himself is required to verify whether or not the product is suitable for the further processing or application intended and whether or not the product complies with the relevant statutory requirements. Unless explicitly and individually otherwise agreed in writing, INEOS Styrolution's sole and exclusive liability with respect to its products is set forth in INEOS Styrolution's General Terms and Conditions for Sale.