INEOS STYROLUTION

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 stiffmess
- 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	11
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m²	2
Charpy Unnotched, 23 °C	ISO 179/1eU	kJ/m²	20
Tensile Strain at Yield, 23 °C	ISO 527	%	2
Tensile Modulus	ISO 527	MPa	2900
Nominal Strain at Break, 23 °C	ISO 527	%	2.5
Flexural Strength, 23 °C	ISO 178	MPa	75
Flexural Modulus, 23 °C	ISO 178	MPa	3000
Hardness, Shore D	ISO 868	-	83
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
Optical Properties			
Light Transmission at 550 nm	ASTM D 1003	%	90
Haze	ASTM D 1003	%	<1
Other Properties			

Contact us:
Phone +49 (2133) 9309 – 168
INSTY.emea@ineos.com
www.ineos-styrolution.com

Revision Date: 2016.09.05

Property, Test Condition	Standard	Unit	Values
Water Absorption, Saturated at 23 °C	ISO 62	%	0.07
Processing			
Melt Temperature Range	ISO 294	°C	180 to 230

Typical values for uncolored products

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 information is provided in good faith. INEOS Styrolution is not responsible for any processing or compounding which may occur to product finished articles, packaging materials or their components. Further, INEOS Styrolution MAKES NO WARRANTY OR REPRESENTATION OF ANY KIND, REGARDING THE INFORMATION GIVEN OR THE PRODUCTS DESCRIBED, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES, REPRESENTATIONS AND CONDITIONS, INCLUDING WITHOUT LIMITATION ALL WARRANTIES AND CONDITIONS OF QUALITY, MERCHANTABILITY AND SUITABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Responsibility for use, storage, handling and disposal of the products described herein is that of the purchaser or end user.

Contact us:
Phone +49 (2133) 9309 – 168
INSTY.emea@ineos.com
www.ineos-styrolution.com