INEOS STYROLUTION

Styrolux T

Styrene Butadiene Copolymer (SBC)

TECHNICAL DATASHEET

DESCRIPTION

Styrolux® T is a new developmental, clear and tough styrene-butadiene copolymer (SBC) designed specifically for high performance film extrusion and shrink film applications. Styrolux® T has been developped for blending with a second SBC component, Styrolux® S, which inceases the stiffness of the film and improves the storage stability of film reels (reduced natural shrinkage).

FEATURES

- High clarity and toughness
- Maximum shrinkage up to 80%
- Very good shrinkage control
- Very low gel content

APPLICATIONS

- Blend component for Styrolux S
- 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	kJ/m²	2
Charpy Unnotched, 23 °C	ISO 179	kJ/m²	No Break
Charpy Unnotched, -30 °C	ISO 179	kJ/m²	20
Tensile Stress at Yield, 23 °C	ISO 527	MPa	25
Tensile Strain at Yield, 23 °C	ISO 527	%	3
Tensile Modulus	ISO 527	MPa	1200
Nominal Strain at Break, 23 °C	ISO 527	%	250
Flexural Strength, 23 °C	ISO 178	MPa	32
Flexural Modulus, 23 °C	ISO 178	MPa	1000
Hardness, Shore D	ISO 868	-	67
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	46
Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°C	62
Optical Properties			

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Property, Test Condition	Standard	Unit	Values
Light Transmission at 550 nm	ASTM D 1003	%	89
Haze	ASTM D 1003	%	<2
Other Properties			
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

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