

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	cm ³ /10 min	11
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179	kJ/m ²	2
Charpy Unnotched, 23 °C	ISO 179	kJ/m ²	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			

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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