

Styrolux® S

Styrene Butadiene Block Copolymer

INEOS Styrolution Group GmbH

Message:

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).

General Information			
Features	Block Copolymer		
	High Clarity		
	High Stiffness		
Uses	Blending		
	Film		
	Labels		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	10	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	11.0	cm³/10min	ISO 1133
Water Absorption (Saturation, 23°C)	0.070	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
Shore D	74		ASTM D2240
Shore D	83		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
--	3240	MPa	ASTM D638
--	2900	MPa	ISO 527-2
Tensile Strength (Yield, 23°C)	43.0	MPa	ASTM D638
Tensile Elongation			
Yield, 23°C	2.0	%	ASTM D638, ISO 527-2
Break, 23°C	2.5	%	ASTM D638
Nominal Tensile Strain at Break (23°C)	2.5	%	ISO 527-2
Flexural Modulus			
--	2620	MPa	ASTM D790
--	3000	MPa	ISO 178

Flexural Strength			
--	68.3	MPa	ASTM D790
--	75.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	20	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	11	J/m	ASTM D256
Unnotched Izod Impact	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	71.7	°C	ASTM D1525 ¹
--	70.0	°C	ISO 306/A50
--	64.0	°C	ISO 306/B50
Optical	Nominal Value	Unit	Test Method
Transmittance (550 nm)	91.0	%	ASTM D1003
Haze	< 1.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 230	°C	
NOTE			
1.	Rate B (120°C/h), Loading 1 (10 N)		

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