

Styrolux® HS 70

Styrene Butadiene Block Copolymer

BASF Corporation

Product Description			
Styrolux HS 70 is a clear styrene-butadiene copolymer (SBC) developed specifically for shrink sleeve label applications. Styrolux® HS 70 offers high ultimate shrinkage during processing, yet maintains very low shrinkage under typical storage conditions. It offers good toughness, high gloss, and excellent clarity. Because of its lower density, HS 70 provides better yield than other high shrinkage materials currently available in the market.			
General			
Material Status	• Commercial: Active		
Availability	• North America		
Features	• High Clarity	• High Gloss	
Uses	• Labels		
RoHS Compliance	• RoHS Compliant		
Appearance	• Clear/Transparent		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.02	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	13	g/10 min	ASTM D1238
Water Absorption (Saturation, 23°C)	0.070	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ² (23°C)	2070	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	28.3	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 23°C ²	2.0	%	
Break, 23°C	40	%	
Flexural Modulus (23°C)	1390	MPa	ASTM D790
Flexural Strength (23°C)	27.0	MPa	ASTM D790
Films	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D882
MD: Yield, 25.4 µm, TD Oriented Film	29.0	MPa	
TD: Yield, 25.4 µm, TD Oriented Film	70.0	MPa	
Tensile Elongation			ASTM D882
MD: Yield, 25.4 µm, TD Oriented Film	400	%	
TD: Yield, 25.4 µm, TD Oriented Film	110	%	
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact (Total Energy)	4.50	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	55.0	°C	
Vicat Softening Temperature	72.0	°C	ASTM D1525 ³
Optical	Nominal Value	Unit	Test Method
Gardner Gloss (60°)	140		ASTM D523
Haze (25.4 µm, TD Oriented Film)	2.0	%	ASTM D1003
Additional Information	Nominal Value	Unit	
Water Shrinkage ⁴			
70°C, 0.0254 mm	7.0	%	
85°C, 0.0254 mm	48	%	
100°C, 0.0254 mm	72	%	
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 230	°C	

Notes

¹ Typical properties: these are not to be construed as specifications.

² 51 mm/min

³ Rate B (120°C/h), Loading 1 (10 N)

⁴ 10 sec, TD Oriented Film

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

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