

Network Polymers SBS 1000

Styrene Butadiene Styrene Block Copolymer

Network Polymers, Inc.

Message:

Network Polymers SBS 1000 is a styrene-butadiene-styrene block copolymer (SBS) product. It can be processed by injection molding and is available in North America. Typical application areas are: food contact applications. The main characteristics are: accessible food.

General Information			
Features	Compliance of Food Exposure		
Agency Ratings	FDA 21 CFR 177.1640		
Appearance	Clear/transparent		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (200°C/5.0 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 - 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60 - 70		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Break)	22.8	MPa	ASTM D638
Flexural Modulus ³	1720	MPa	ASTM D790B
Flexural Strength ⁴	37.2	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	27	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	76.7	°C	ASTM D648
Vicat Softening Temperature	90.6	°C	ASTM D1525 ⁵
Optical	Nominal Value	Unit	Test Method
Haze	< 4.0	%	ASTM D1003
Color, Yellowness Index ⁶			
Injection	Nominal Value	Unit	
Suggested Shot Size	40 - 80	%	
Rear Temperature	171	°C	
Middle Temperature	182	°C	
Front Temperature	191	°C	
Nozzle Temperature	204	°C	
Processing (Melt) Temp	< 232	°C	
Mold Temperature	26.7	°C	
Injection Pressure	7.58	MPa	

Back Pressure	0.621	MPa
Screw Speed	200	rpm

Injection instructions

Injection Speed: 0.5 in/sec

NOTE

1.	Procedure A
2.	51 mm/min
3.	Method I (three-point load), 1.3 mm/min
4.	Method I (three-point load), 1.3 mm/min
5.	压力1 (10N)
6.	BAM 1015

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

