

Network Polymers SBS 1003

Styrene Butadiene Styrene Block Copolymer

Network Polymers, Inc.

Message:

Network Polymers SBS 1003 is a styrene-butadiene-styrene block copolymer (SBS) product. It can be processed by extrusion or injection molding and is available in North America.

General Information			
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.01	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (200°C/5.0 kg)	7.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.65	%	ASTM D955
Water Absorption (Saturation, 23°C)	0.070	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 10 seconds, 3.18mm, injection molding)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	26.2	MPa	ASTM D638
Flexural Modulus ³	1790	MPa	ASTM D790B
Flexural Strength ⁴	37.2	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact (23°C, 3.18 mm, Total Energy)	40.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	62.2	°C	ASTM D648
Vicat Softening Temperature	85.0	°C	ASTM D1525 ⁵
Optical	Nominal Value	Unit	Test Method
Transmittance	92.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Processing (Melt) Temp	177 - 232	°C	
Mold Temperature	10.0 - 48.9	°C	
Back Pressure	0.345 - 1.03	MPa	
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)

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