



NETWORK POLYMERS, INC.

**SBS 1001**

**STYRENE BUTADIENE  
BLOCK COPOLYMER**

PROPERTIES	ASTM TEST	UNITS ENGLISH METRIC	
<b>PHYSICAL</b>			
Melt Flow Rate - Procedure A Condition G (200°C/5.0 kg)	D-1238	g / 10 min	15.0
Specific Gravity	D-792		1.02
Shore Hardness, 10 sec	D-2240	Shore D	72 <sub>±</sub> 5
Water Absorption (Sat. / 73° F)	D-570	%	0.07
<b>IMPACT</b>			
Izod Impact, notched	ISO-180	ft-lb/in <sup>2</sup> kJ /m <sup>2</sup>	1.67 3.5
<b>FLEXURAL</b>			
Flexural Modulus Test Method I, Procedure B (chs 0.05 in/min)	D-790	psi MPa	218,000 1,502
Flexural Strength Test Method I, Procedure B (chs 0.05 in/min)	D-790	psi MPa	4,790 33.0
<b>TENSILE</b>			
Tensile Strength @ Yield (chs 2.0 in/min)	D-638	psi MPa	4,060 30.0
<b>THERMAL</b>			
Heat Deflection Temperature 66 psi 264 psi	D-648	°F / °C °F / °C	178 / 81 153 / 67
Vicat Softening Point, 0.125", 1Kg	D-1525	F / °C	194 / 90
<b>MOLD SHRINKAGE</b>			
Mold Shrinkage (Flow Direction)	D-955	in/in	0.0065
<b>OPTICAL</b>			
Transmittance	D-1003	%	90

EAP/02-22-07 97/9

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