

Overview of materials for Styrene/Butadiene/Styrene (SBS)

Category : Polymer , Thermoplastic , Styrene-Butadiene , Styrene/Butadiene/Styrene (SBS)

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Styrene/Butadiene/Styrene (SBS)". Each property range of values reported is minimum and maximum values of appropriate MatWeb entries. The comments report the average value, and number of data points used to calculate the average. The values are not necessarily typical of any specific grade, especially less common values and those that can be most affected by additives or processing methods.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Overview-of-materials-for-StyreneButadieneStyrene-SBS.php

Physical Properties	Metric	English	Comments
Density	0.100 - 1.30 g/cc	0.00361 - 0.0470 lb/in ³	Average value: 0.932 g/cc Grade Count:82
Viscosity	0.0400 - 6000 cP	0.0400 - 6000 cP	Average value: 1190 cP Grade Count:51
Molecular Weight	123000 - 162000 g/mol	123000 - 162000 g/mol	Average value: 139000 g/mol Grade Count:5
Linear Mold Shrinkage	0.0140 - 0.0270 cm/cm	0.0140 - 0.0270 in/in	Average value: 0.0195 cm/cm Grade Count:7
Melt Flow	1.00 - 34.0 g/10 min	1.00 - 34.0 g/10 min	Average value: 7.50 g/10 min Grade Count:67
Ash	0.100 - 6.00 %	0.100 - 6.00 %	Average value: 1.90 % Grade Count:47

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	30.0 - 90.0	30.0 - 90.0	Average value: 66.9 Grade Count:78
Hardness, Shore C	11.0 - 41.0	11.0 - 41.0	Average value: 22.3 Grade Count:3
Tensile Strength, Ultimate	1.70 - 33.0 MPa	247 - 4790 psi	Average value: 17.8 MPa Grade Count:59
Tensile Strength, Yield	0.196 - 58.8 MPa	28.4 - 8530 psi	Average value: 3.54 MPa Grade Count:57
Elongation at Break	440 - 1500 %	440 - 1500 %	Average value: 843 % Grade Count:55
Elongation at Yield	150 - 625 %	150 - 625 %	Average value: 369 % Grade Count:8
Tear Strength	0.981 - 44.1 kN/m	5.60 - 252 pli	Average value: 19.6 kN/m Grade Count:10
Compression Set	20.0 - 42.8 %	20.0 - 42.8 %	Average value: 28.9 % Grade Count:3
	65.0 - 95.0 %	65.0 - 95.0 %	Average value: 82.9 % Grade Count:6
	@Temperature 70.0 - 70.0 °C	@Temperature 158 - 158 °F	

Mechanical Properties	Metric	English	Comments
	85.0 - 95.0 %	65.0 - 95.0 %	
	@Time 21600 - 86400 sec	@Time 6.00 - 24.0 hour	Average value: 82.9 % Grade Count:6

Thermal Properties	Metric	English	Comments
Flash Point	288 °C	550 °F	Average value: 288 °C Grade Count:10

Processing Properties	Metric	English	Comments
Melt Temperature	171 - 220 °C	340 - 428 °F	Average value: 190 °C Grade Count:8
Mold Temperature	10.0 - 40.0 °C	50.0 - 104 °F	Average value: 27.7 °C Grade Count:8
Injection Pressure	3.55 - 4.93 MPa	515 - 715 psi	Average value: 4.24 MPa Grade Count:3

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