

Generic SBS

Styrene Butadiene Styrene Block Copolymer

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.890 - 1.19	g/cm ³	ASTM D792
23°C	0.908 - 0.996	g/cm ³	ISO 1183
Apparent Density	0.40	g/cm ³	ASTM D1895
Melt Mass-Flow Rate (MFR)			
200°C/5.0 kg	0.50 - 12	g/10 min	ASTM D1238
200°C/5.0 kg	0.0 - 21	g/10 min	ISO 1133
Molding Shrinkage			
Flow: 23°C	1.1 - 3.3	%	ASTM D955
Transverse flow: 23°C	1.1 - 2.2	%	ASTM D955
23°C	0.50 - 1.4	%	ISO 294-4
Solution Viscosity	22 - 1520	mPa · s	ASTM D445
Bound Styrene	28.9 - 40.5	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
23°C	29 - 92		ASTM D2240
23°C	40 - 92		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 23°C	1.63 - 7.45	MPa	ASTM D638
Yield, 23°C	4.30 - 27.4	MPa	ISO 527-2
23°C	1.00 - 13.0	MPa	ASTM D638
Tensile Elongation			
Fracture, 23°C	380 - 1000	%	ASTM D638
Fracture, 23°C	36 - 770	%	ISO 527-2
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			
100% strain, 23°C	0.300 - 3.73	MPa	ASTM D412
100% strain, 23°C	0.700 - 2.45	MPa	ISO 37
300% strain, 23°C	0.600 - 4.49	MPa	ASTM D412
300% strain, 23°C	2.29 - 3.06	MPa	ISO 37

Tensile Strength			
Yield, 23°C	1.30 - 33.1	MPa	ASTM D412
Yield, 23°C	2.20 - 33.0	MPa	ISO 37
Fracture, 23°C	2.00 - 7.40	MPa	ASTM D412
Fracture, 23°C	5.00 - 33.0	MPa	ISO 37
23°C	3.70 - 20.1	MPa	ASTM D412
Tensile Elongation			
Fracture, 23°C	350 - 1200	%	ASTM D412
Fracture, 23°C	430 - 910	%	ISO 37
Tear Strength			
23°C	9.00 - 78.6	kN/m	ASTM D624
23°C	15 - 32	kN/m	ISO 34-1
Compression Set			
--	10 - 36	%	ASTM D395
23°C	14 - 35	%	ISO 815

Injection	Nominal Value	Unit
Rear Temperature	144 - 170	°C
Middle Temperature	152 - 170	°C
Front Temperature	158 - 171	°C
Nozzle Temperature	170 - 196	°C
Processing (Melt) Temp	189 - 221	°C
Mold Temperature	22.5 - 37.8	°C
Injection Pressure	4.14 - 6.19	MPa

Injection instructions

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Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	145 - 150	°C
Cylinder Zone 2 Temp.	150	°C
Cylinder Zone 3 Temp.	150 - 160	°C
Cylinder Zone 4 Temp.	160 - 170	°C
Cylinder Zone 5 Temp.	165 - 170	°C
Die Temperature	175 - 180	°C

Extrusion instructions

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