

Generic SEBS

Styrene Ethylene Butylene 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			
--	0.886 - 1.23	g/cm³	ASTM D792
23°C	0.888 - 1.19	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	0.50 - 14	g/10 min	ASTM D1238
230°C/2.16 kg	0.10 - 11	g/10 min	ISO 1133
Molding Shrinkage			
Flow: 23°C	0.29 - 2.6	%	ASTM D955
Transverse flow: 23°C	0.73 - 1.8	%	ASTM D955
23°C	1.4 - 2.4	%	ISO 294-4
Bound Styrene	29.7 - 33.1	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
23°C	29 - 90		ASTM D2240
23°C	19 - 91		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	0.624 - 4.68	MPa	ASTM D638
Tensile Strength			
Yield, 23°C	3.17 - 5.82	MPa	ASTM D638
Fracture, 23°C	3.00 - 28.0	MPa	ISO 527-2
23°C	0.100 - 7.48	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	490 - 600	%	ASTM D638
Nominal Tensile Strain at Break (23°C)	640 - 850	%	ISO 527-2
Elastomers	Nominal Value	Unit	Test Method
Tensile Set (23°C)	0 - 8	%	ASTM D412
Tensile Stress			
50% strain, 23°C	0.241 - 3.10	MPa	ASTM D412
100% strain, 23°C	0.0900 - 3.78	MPa	ASTM D412
100% strain, 23°C	0.300 - 5.66	MPa	ISO 37
200% strain, 23°C	0.500 - 6.26	MPa	ISO 37
300% strain, 23°C	0.843 - 5.31	MPa	ASTM D412

300% strain, 23°C	0.890 - 6.78	MPa	ISO 37
Tensile Strength			
Yield, 23°C	2.07 - 12.6	MPa	ASTM D412
Yield, 23°C	1.66 - 11.1	MPa	ISO 37
Fracture, 23°C	2.00 - 12.6	MPa	ASTM D412
Fracture, 23°C	4.94 - 22.2	MPa	ISO 37
23°C	1.18 - 15.6	MPa	ASTM D412
Tensile Elongation			
Yield	980 - 1400	%	ASTM D412
Fracture, 23°C	500 - 1000	%	ASTM D412
Fracture, 23°C	290 - 880	%	ISO 37
Tear Strength			
23°C	9.73 - 52.3	kN/m	ASTM D624
23°C	11 - 45	kN/m	ISO 34-1
Compression Set			
--	8.3 - 87	%	ASTM D395
23°C	9.0 - 47	%	ISO 815
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-55.7 - -39.1	°C	ASTM D746
Melting Temperature (DSC)	151 - 166	°C	ISO 3146
Optical	Nominal Value	Unit	Test Method
Transmittance	70.0 - 92.4	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	65.1 - 90.0	°C	
Drying Time	2.0 - 3.0	hr	
Suggested Max Regrind	20	%	
Rear Temperature	160 - 182	°C	
Middle Temperature	168 - 201	°C	
Front Temperature	175 - 223	°C	
Nozzle Temperature	180 - 210	°C	
Processing (Melt) Temp	187 - 252	°C	
Mold Temperature	26.6 - 50.1	°C	
Injection Pressure	3.43 - 53.1	MPa	
Back Pressure	0.421 - 3.50	MPa	
Injection instructions			
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Extrusion	Nominal Value	Unit	
Drying Temperature	70.0 - 90.0	°C	
Drying Time	1.9 - 3.0	hr	
Cylinder Zone 1 Temp.	159 - 172	°C	
Cylinder Zone 2 Temp.	165 - 181	°C	

Cylinder Zone 3 Temp.	174 - 200	°C
Cylinder Zone 4 Temp.	189 - 196	°C
Cylinder Zone 5 Temp.	194 - 205	°C
Adapter Temperature	180 - 190	°C
Die Temperature	185 - 210	°C

Extrusion instructions

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