

Generic SBC

Styrene Butadiene Block Copolymer

Generic

Message:

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General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.898 - 1.07	g/cm³	ASTM D792
23°C	0.886 - 1.09	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			
200°C/5.0 kg	1.0 - 15	g/10 min	ASTM D1238
200°C/5.0 kg	3.4 - 8.0	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	10.9 - 12.1	cm³/10min	ISO 1133
Molding Shrinkage			
Flow: 23°C	0.60 - 0.68	%	ASTM D955
23°C	0.50 - 2.4	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
23°C	47 - 92		ASTM D2240
23°C	39 - 91		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 23°C	1.03 - 33.4	MPa	ASTM D638
Yield, 23°C	4.00 - 51.0	MPa	ISO 527-2
Fracture, 23°C	14.0 - 64.0	MPa	ISO 527-2
Tensile Strain			
Yield, 23°C	2.0 - 2.1	%	ISO 527-2
Fracture, 23°C	30 - 260	%	ASTM D638
Nominal Tensile Strain at Break (23°C)	2.5 - 500	%	ISO 527-2
Flexural Modulus			
23°C	1330 - 1800	MPa	ASTM D790
23°C	1380 - 2460	MPa	ISO 178
Flexural Stress			
23°C	16.5 - 76.5	MPa	ISO 178
Yield, 23°C	24.4 - 54.0	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			

100% strain, 23°C	1.80 - 5.38	MPa	ISO 37
200% strain, 23°C	1.70 - 6.90	MPa	ISO 37
300% strain, 23°C	2.00 - 4.57	MPa	ASTM D412
300% strain, 23°C	1.00 - 8.00	MPa	ISO 37
Tensile Stress			
Yield, 23°C	1.70 - 33.0	MPa	ISO 37
Fracture, 23°C	3.96 - 20.3	MPa	ASTM D412
Tensile Elongation			
Fracture, 23°C	550 - 850	%	ASTM D412
Fracture, 23°C	400 - 890	%	ISO 37
Tear Strength			
23°C	19.8 - 104	kN/m	ASTM D624
23°C	18 - 110	kN/m	ISO 34-1
Compression Set (23°C)	18 - 36	%	ISO 815
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	1.6 - 9.9	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	20 - 110	J/m	ASTM D256
Instrumented Dart Impact (23°C)	0.602 - 41.6	J	ASTM D3763
Aging	Nominal Value	Unit	Test Method
Continuous Upper Temperature Resistance	150 - 170	°C	SAE J2236
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	59.6 - 62.7	°C	ASTM D648
Brittleness Temperature	-60.0 - -59.0	°C	ASTM D746
Vicat Softening Temperature			
--	62.7 - 90.0	°C	ASTM D1525
--	62.0 - 93.5	°C	ISO 306
Flammability	Nominal Value	Unit	Test Method
Burning Rate	37 - 54	mm/min	ISO 3795
Optical	Nominal Value	Unit	Test Method
Transmittance	88.9 - 93.1	%	ASTM D1003
Haze	0.20 - 3.1	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	60.0 - 77.0	°C	
Rear Temperature	175 - 200	°C	
Middle Temperature	175 - 200	°C	
Front Temperature	175 - 200	°C	
Nozzle Temperature	175 - 195	°C	
Processing (Melt) Temp	184 - 250	°C	
Mold Temperature	26.7 - 50.0	°C	
Injection instructions			

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