

Cevian® SAG20

Acrylonitrile Butadiene Styrene

PlastxWorld Inc.

Message:

Cevian® SAG20 is an Acrylonitrile Butadiene Styrene (ABS) product filled with 20% glass fiber. It can be processed by injection molding and is available in North America. Typical application: Electrical/Electronic Applications.

Characteristics include:

Flame Rated

Good Dimensional Stability

Good Processability

Heat Resistant

Rigid

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Dimensional Stability		
	Good Moldability		
	High Heat Resistance		
	High Rigidity		
Uses	Electrical Parts		
Appearance	Black		
	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	68.9	MPa	ASTM D638
Flexural Modulus	5860	MPa	ASTM D790
Flexural Strength (Yield)	103	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	105	°C	ASTM D648
CLTE - Flow	4.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0E+15	ohms · cm	ASTM D257

Dielectric Strength	31	kV/mm	ASTM D149
Arc Resistance (3.18 mm)	67.0	sec	ASTM D495
Comparative Tracking Index (CTI) (3.18 mm)	370	V	UL 746
High Amp Arc Ignition (HAI)			UL 746
1.59 mm	39.0		
3.18 mm	37.0		
6.35 mm	43.0		
High Voltage Arc Tracking Rate (HVTR) (3.18 mm)	88.9	mm/min	UL 746
Hot-wire Ignition (HWI)			UL 746
1.59 mm	40	sec	
3.18 mm	120	sec	
6.35 mm	120	sec	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 85.0	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	230 to 250	°C	
Mold Temperature	60.0 to 80.0	°C	
Injection Pressure	49.0 to 97.9	MPa	
Screw Speed	40 to 60	rpm	

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