

# Cevian® SFG20

Acrylonitrile Butadiene Styrene

PlastxWorld Inc.

## Message:

Cevian®SFG20 is an acrylonitrile butadiene styrene (ABS) product, which contains a 20% glass fiber reinforced material. It can be processed by injection molding and is available in North America. Cevian®The application areas of SFG20 include electrical/electronic applications and commercial/office supplies.

- Features include:
- flame retardant/rated flame
  - Flame Retardant
  - Heat resistance
  - Good processability
  - Hard

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	heat stabilizer		
	Flame retardancy		
Features	Good dimensional stability		
	Rigidity, high		
	Good formability		
	Heat resistance, high		
	Thermal Stability		
	Thermal stability, good		
	Flame retardancy		
Uses	Computer components		
	Electrical components		
	Business equipment		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20 - 0.50	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	88.3	MPa	ASTM D638
Flexural Modulus	5880	MPa	ASTM D790
Flexural Strength	118	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
3.18 mm	59	J/m	ASTM D256
6.35 mm	48	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 12.7 mm)	119	°C	ASTM D648
CLTE - Flow	4.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (1.59 mm)	30	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm, ALL)	V-0		UL 94
Additional Information			
Specific Gravity, ASTM D792, 73°F, 50% RH: 1.33Water Absorption, ASTM D570, 24 hrs, 73°F: 0.3 %			
Injection	Nominal Value	Unit	
Drying Temperature	79.4 - 85.0	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	180 - 210	°C	
Middle Temperature	200 - 230	°C	
Front Temperature	220 - 250	°C	
Processing (Melt) Temp	240 - 260	°C	
Mold Temperature	60.0 - 80.0	°C	
Injection Pressure	48.3 - 117	MPa	
Injection Rate	Moderate		
Back Pressure	0.345 - 1.38	MPa	
Screw Speed	40 - 60	rpm	

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#### Recommended distributors for this material

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