

# Edgetek™ SF-40GF/000 RS NC

Polyphenylene Sulfide

PolyOne Corporation

Message:

40% Glass Fiber Reinforced PPS Compound

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.66	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.25 - 0.55	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>	190	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	3.0	%	ASTM D638
Flexural Modulus <sup>3</sup>	15000	MPa	ASTM D790
Flexural Strength <sup>4</sup>	275	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	110	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.20 mm)	700	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	274	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		Internal method
Injection	Nominal Value	Unit	
Drying Temperature	140 - 150	°C	
Drying Time	4.0 - 6.0	hr	
Rear Temperature	300 - 320	°C	
Middle Temperature	300 - 320	°C	
Front Temperature	300 - 320	°C	
Mold Temperature	140 - 160	°C	
Injection instructions			
Injection Pressure: MED-HIGH Hold Pressure: MED-HIGH Screw Speed: MODERATE Back Pressure: LOW			
NOTE			
1.	5.0 mm/min		

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2.	5.0 mm/min
3.	1.3 mm/min
4.	1.3 mm/min

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#### Recommended distributors for this material

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