

# Diamond ABS 3501 GF-20

Acrylonitrile Butadiene Styrene

Network Polymers, Inc.

Message:

Diamond ABS 3501 GF-20 is an Acrylonitrile Butadiene Styrene (ABS) product filled with 20% glass fiber. It is available in North America.

Characteristics include:

- REACH Compliant
- RoHS Compliant
- WEEE Compliant
- Impact Resistant

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Impact Resistance		
Agency Ratings	EC 1907/2006 (REACH)		
	EU 2002/96/EC (WEEE)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) <sup>1</sup>			ASTM D1238
200°C/5.0 kg	0.80	g/10 min	
230°C/3.8 kg	2.5 to 3.0	g/10 min	
Molding Shrinkage - Flow	0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield)	67.6	MPa	ASTM D638
Flexural Modulus <sup>3</sup>	4430	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	64	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed, 3.18 mm)	102	°C	ASTM D648
Vicat Softening Temperature	113	°C	ASTM D1525 <sup>4</sup>
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 85.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	190 to 250	°C	
Middle Temperature	190 to 250	°C	
Front Temperature	190 to 250	°C	
Mold Temperature	40.0 to 80.0	°C	

Injection Rate	Moderate-Fast
NOTE	
1.	Procedure A
2.	51 mm/min
3.	1.3 mm/min
4.	Loading 1 (10 N)

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#### Recommended distributors for this material

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