

Diamond ABS 3501 GF-10

Acrylonitrile Butadiene Styrene

Network Polymers, Inc.

Message:

Diamond ABS 3501 GF-10 is an Acrylonitrile Butadiene Styrene (ABS) product filled with 10% glass fiber. It is available in North America.

Characteristics include:

REACH Compliant

RoHS Compliant

WEEE Compliant

Impact Resistant

General Information			
Filler / Reinforcement	Glass Fiber,10% 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	1.11	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹			ASTM D1238
200°C/5.0 kg	1.1	g/10 min	
230°C/3.8 kg	3.5	g/10 min	
Molding Shrinkage - Flow	0.20 to 0.40	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	113		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	57.9	MPa	ASTM D638
Flexural Modulus - Tangent ³	3220	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	91	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 3.18 mm	93.9	°C	
1.8 MPa, Annealed, 3.18 mm	100	°C	
Vicat Softening Temperature	111	°C	ASTM D1525 ⁴
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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WECHAT