

# Diamond ABS 9501

Acrylonitrile Butadiene Styrene

Network Polymers, Inc.

## Message:

Diamond ABS 9501 is an Acrylonitrile Butadiene Styrene (ABS) product. It can be processed by injection molding and is available in North America. Characteristics include:

- Flame Rated
- REACH Compliant
- RoHS Compliant
- WEEE Compliant
- Impact Resistant

General Information			
UL YellowCard	E51193-101898806		
Features	Ultra High Impact Resistance		
Agency Ratings	EC 1907/2006 (REACH)		
	EU 2002/96/EC (WEEE)		
RoHS Compliance	RoHS Compliant		
UL File Number	E119088		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) <sup>1</sup> (200°C/5.0 kg)	0.40 to 1.2	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield)	36.5	MPa	ASTM D638
Flexural Modulus - Tangent <sup>3</sup>	1860	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	450	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 3.18 mm	76.1	°C	
1.8 MPa, Annealed, 3.18 mm	92.8	°C	
Vicat Softening Temperature	105	°C	ASTM D1525 <sup>4</sup>
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94

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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