

Diamond ABS 9501N

Acrylonitrile Butadiene Styrene
Network Polymers, Inc.

Message:

Diamond ABS 9501N 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
High Stiffness

General Information			
Features	Ultra High Impact Resistance		
	Ultra High Stiffness		
Agency Ratings	EC 1907/2006 (REACH)		
	EU 2002/96/EC (WEEE)		
RoHS Compliance	RoHS Compliant		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹			ASTM D1238
220°C/10.0 kg	13	g/10 min	
230°C/3.8 kg	2.8	g/10 min	
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 ² (Yield, 23°C, 3.18 mm, Injection Molded)	42.7	MPa	ASTM D638
Flexural Modulus - Tangent ³ (23°C, 3.18 mm, Injection Molded)	2050	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	480	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 3.18 mm, Injection Molded	80.0	°C	

1.8 MPa, Annealed, 3.18 mm, Injection Molded	92.8	°C	
Vicat Softening Temperature	105	°C	ASTM D1525 ⁴
Thermal Index - 1.5mm	140	°F	UL 746B
Flammability	Nominal Value		Test Method
Flame Rating (1.59 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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