

# Diamond ABS 2100 P

Acrylonitrile Butadiene Styrene

Network Polymers, Inc.

## Message:

Diamond ABS 2100 P is an Acrylonitrile Butadiene Styrene (ABS) product. It can be processed by compounding and is available in North America. Characteristics include:  
REACH Compliant  
RoHS Compliant  
WEEE Compliant

General Information			
Agency Ratings	EC 1907/2006 (REACH)		
	EU 2002/96/EC (WEEE)		
RoHS Compliance	RoHS Compliant		
Forms	Powder		
Processing Method	Compounding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) <sup>1</sup>			ASTM D1238
200°C/5.0 kg	3.0	g/10 min	
230°C/3.8 kg	11	g/10 min	
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	104		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield)	49.6	MPa	ASTM D638
Flexural Modulus - Tangent <sup>3</sup>	2480	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	210	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 3.18 mm	79.4	°C	
1.8 MPa, Annealed, 3.18 mm	96.1	°C	
Vicat Softening Temperature	103	°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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