

Diamond ABS 1000

Acrylonitrile Butadiene Styrene
Network Polymers, Inc.

Message:

Diamond ABS 1000 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 Gloss

General Information			
UL YellowCard	E51193-101898763		
Features	High Gloss		
Agency Ratings	EC 1907/2006 (REACH)		
	EU 2002/96/EC (WEEE)		
RoHS Compliance	RoHS Compliant		
UL File Number	E150937		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.5	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)	115		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	51.7	MPa	ASTM D638
Flexural Modulus - Tangent ²	2540	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 3.18 mm	78.0	°C	
1.8 MPa, Annealed, 3.18 mm	92.8	°C	
Vicat Softening Temperature	104	°C	ASTM D1525
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 Pressure	48.3 to 75.8	MPa
NOTE		
1.	51 mm/min	
2.	1.3 mm/min	

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