

# DIAMALLOY ABSPC 7901

Polycarbonate + ABS

Network Polymers, Inc.

## Message:

DIAMALLOY ABSPC 7901 is a Polycarbonate + ABS (PC+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			
Features	High Impact Resistance		
Agency Ratings	EC 1907/2006 (REACH)		
	EU 2002/96/EC (WEEE)		
RoHS Compliance	RoHS Compliant		
UL File Number	E150937		
Forms	Pellets		
Processing Method	Injection Molding		
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> (265°C/5.0 kg)	8.7	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.80	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield)	40.0	MPa	ASTM D638
Flexural Modulus - Tangent <sup>3</sup>	2010	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	430	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	78.9	°C	ASTM D648
Vicat Softening Temperature	112	°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	90.0 to 100	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	

Suggested Shot Size	40 to 70	%
Suggested Max Regrind	30	%
Rear Temperature	230 to 260	°C
Middle Temperature	235 to 265	°C
Front Temperature	238 to 272	°C
Nozzle Temperature	238 to 272	°C
Processing (Melt) Temp	238 to 272	°C
Mold Temperature	40.0 to 100	°C
Back Pressure	0.345 to 1.03	MPa

#### 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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