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# **Technical Data Sheet**

# Diamaloy ABSPC 9901U 2A920 CHARCOAL



Polycarbonate + ABS

## **Product Description**

*Diamaloy* ABSPC 9901U 2A920 CHARCOAL GREYGRY is a Polycarbonate + ABS material and is typically used in Injection Molding applications. Features include: Ultra High Impact Resistance.

# **Regulatory Status**

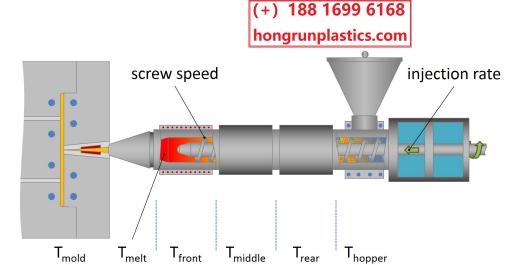
For regulatory compliance information, see ABSPC 9901U 2A920 CHARCOAL GREYGRY <u>Product Stewardship</u> <u>Bulletin (PSB) and Safety Data Sheet (SDS)</u>.

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Status Commercial: Active
Availability North America
Processing Method Injection Molding

Attribute Ultra High Impact Resistance

	Nominal		
Typical Properties	Value	Units	Test Method
Physical			
Melt Flow Rate			
(200 °C/5.0 kg, Procedure A)	0.80	g/10 min	ASTM D1238
(230 °C/3.8 kg, Procedure A)	3.9	g/10 min	ASTM D1238
Density - Specific Gravity	1.12	g/cm³	ASTM D792
Mechanical			
Tensile Strength at Yield, (51 mm/min)	55.2	MPa	ASTM D638
Flexural Modulus	2140	MPa	ASTM D790
Tensile Modulus, (Injection Molded, Type I)	2670	MPa	ASTM D638
Flexural Strength at Break, (Method I (3 point load), Procedure A, Type I)	70.7	MPa	ASTM D790
Impact			
Notched Izod Impact, (23 °C, 3.18 mm)	590	J/m	ASTM D256
Hardness			
Rockwell Hardness, (R-Scale)	112		ASTM D785
Thermal			
Vicat Softening Temperature, (Loading 1 (10 N))	125	°C	ASTM D1525
Deflection Temperature Under Load Annealed (264 psi), (3.18 mm)	100	°C	ASTM D648
Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm)	90.0	°C	ASTM D648
UL Information			
Flame Rating, (1.5 mm)	HB	·	UL 94
UL File Number	E119088		



	Nominal	
Injection Parameters	Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	90 to 100	°C
Suggested Max Moisture	0.02	%
Nozzle Temperature	238 to 272	°C
Processing (Melt) Temp	238 to 272	°C
Front Temperature	238 to 272	°C
Suggested Shot Size	40 to 70	%
Middle Temperature	235 to 265	°C
Rear Temperature	230 to 260	°C
Back Pressure	0.345 to 1.03	MPa
Mold Temperature	40 to 100	°C

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### **Notes**

These are typical property values not to be construed as specification limits.

## **Processing Techniques**

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

#### **Company Information**

For further information regarding the LyondellBasell company, please visit <a href="http://www.lyb.com/">http://www.lyb.com/</a>.

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Page 3 of 3