

Technical Data Sheet

**Diamaloy Abspc 9901**

Polycarbonate + ABS
LyondellBasell Industries
Engineering Plastics

General			
Material Status	• Commercial: Active		
Availability	• North America		
Features	• Ultra High Impact Resistance		
UL File Number	• E119088		
Processing Method	• Injection Molding		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.12	1.12 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹			ASTM D1238
200°C/5.0 kg	0.80 g/10 min	0.80 g/10 min	
230°C/3.8 kg	3.9 g/10 min	3.9 g/10 min	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus ² (Injection Molded)	387000 psi	2670 MPa	ASTM D638
Tensile Strength ³ (Yield)	8000 psi	55.2 MPa	ASTM D638
Flexural Modulus	310000 psi	2140 MPa	ASTM D790
Flexural Strength ⁴ (Break)	10300 psi	70.7 MPa	ASTM D790A
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.125 in (3.18 mm)	11 ft·lb/in	590 J/m	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	112	112	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	194 °F	90.0 °C	
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	212 °F	100 °C	
Vicat Softening Temperature	257 °F	125 °C	ASTM D1525 ⁵
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.06 in (1.5 mm))	HB	HB	UL 94

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	194 to 212 °F	90 to 100 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Suggested Max Moisture	0.02 %	0.02 %
Suggested Shot Size	40 to 70 %	40 to 70 %
Rear Temperature	446 to 500 °F	230 to 260 °C
Middle Temperature	455 to 509 °F	235 to 265 °C
Front Temperature	460 to 522 °F	238 to 272 °C
Nozzle Temperature	460 to 522 °F	238 to 272 °C
Processing (Melt) Temp	460 to 522 °F	238 to 272 °C
Mold Temperature	104 to 212 °F	40 to 100 °C
Back Pressure	50.0 to 150 psi	0.345 to 1.03 MPa

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Notes

¹ Procedure A

² Type I

³ 2.0 in/min (51 mm/min)

⁴ Method I (3 point load), Type I

⁵ Loading 1 (10 N)

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.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

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

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