

Technical Data Sheet

**Diamaloy Engineered Alloys 808 C2 WW**

Polycarbonate Alloy
LyondellBasell Industries
Engineering Plastics

General

Material Status	• Commercial: Active
Availability	• North America
Forms	• Pellets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.21	1.21 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹			ASTM D1238
200°C/5.0 kg	3.0 g/10 min	3.0 g/10 min	
230°C/3.8 kg	12 g/10 min	12 g/10 min	
300°C/1.2 kg	78 g/10 min	78 g/10 min	
Water Absorption			ASTM D570
24 hr, 73°F (23°C)	0.15 %	0.15 %	
Equilibrium, 73°F (23°C)	0.35 %	0.35 %	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ² (Yield)	8000 psi	55.2 MPa	ASTM D638
Flexural Modulus - Tangent ³	300000 psi	2070 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.125 in (3.18 mm)	2.0 ft-lb/in	110 J/m	
Reverse Notch Izod Impact			ASTM D256
73°F (23°C), 0.125 in (3.18 mm)	No Break	No Break	
Gardner Impact (73°F (23°C))	> 320 in-lb	> 36.2 J	ASTM D5420
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)	172 °F	77.8 °C	
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Light Transmittance	90.0 %	90.0 %	ASTM D1003
Haze	1.00 %	1.00 %	ASTM D1003

Notes

¹ Procedure A

² 2.0 in/min (51 mm/min)

³ 0.050 in/min (1.3 mm/min)

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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