

Technical Data Sheet



Diamaloy Engineered Alloys 808 C8 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	1.22	1.22 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (200°C/5.0 kg)	2.0 g/10 min	2.0 g/10 min	ASTM D1238
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)	8950 psi	61.7 MPa	ASTM D638
Tensile Elongation (Break)	100 %	100 %	ASTM D638
Flexural Modulus - Tangent ³	340000 psi	2340 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)	1.8 ft·lb/in	96 J/m	
Unnotched Izod Impact			ASTM D4812
73°F (23°C), 0.125 in (3.18 mm)	No Break	No Break	
Gardner Impact			ASTM D5420
-20°F (-29°C)	> 320 in·lb	> 36.2 J	
0°F (-18°C)	> 320 in·lb	> 36.2 J	
73°F (23°C)	> 320 in·lb	> 36.2 J	
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)	217 °F	103 °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/>.

© LyondellBasell Industries Holdings, B.V. 2024

Page: 1 of 2
LyondellBasell

www.lyondellbasell.com
Publish Date: 2024-02-22

Technical Data Sheet

***Diamaloy Engineered Alloys 808 C8 WW***

Polycarbonate Alloy
LyondellBasell Industries
Engineering Plastics

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.