

Technical Data Sheet

**Diamond Pc 2009I**

Polycarbonate
LyondellBasell Industries
Engineering Plastics

General

Material Status	• Commercial: Active
Availability	• North America
Additive	• Impact Modifier
Features	• Impact Modified
Forms	• Pellets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.18	1.18 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (300°C/1.2 kg)	7.9 g/10 min	7.9 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ² (Break)	9820 psi	67.7 MPa	ASTM D638
Tensile Elongation ² (Break)	130 %	130 %	ASTM D638
Flexural Modulus - Chord ³ (0.125 in (3.18 mm))	342000 psi	2360 MPa	ASTM D790
Flexural Strength ³ (0.125 in (3.18 mm))	4230 psi	29.1 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
-22°F (-30°C), 0.125 in (3.18 mm)	12 ft·lb/in	660 J/m	
73°F (23°C), 0.125 in (3.18 mm)	16 ft·lb/in	830 J/m	
Instrumented Dart Impact ⁴			ASTM D3763
-22°F (-30°C), Ductile Failure	602 in·lb	68.0 J	
73°F (23°C), Ductile Failure	522 in·lb	59.0 J	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	265 °F	130 °C	
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	243 °F	117 °C	

Notes

- ¹ Procedure A
- ² 2.0 in/min (50 mm/min)
- ³ 0.051 in/min (1.3 mm/min)
- ⁴ 22.0 ft/sec (6.70 m/sec)

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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Page: 1 of 2
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