

Technical Data Sheet

Diamond Pc 1008NCD

Polycarbonate
LyondellBasell Industries
Engineering Plastics

General	
Additive	• Impact Modifier
Features	• Impact Modified
Agency Ratings	• EC 1907/2006 (REACH) • EU 2002/96/EC (WEEE)
RoHS Compliance	• RoHS Compliant
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)	8.0 g/10 min	8.0 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ² (Yield)	9600 psi	66.2 MPa	ASTM D638
Flexural Modulus ³ (0.125 In (3.18 Mm))	320000 psi	2210 MPa	ASTM D790
Flexural Strength ³ (0.125 In (3.18 Mm))	12300 psi	84.8 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact 73°f (23°c), 0.125 In (3.18 Mm)	15 ft·lb/in	770 J/m	ASTM D256A

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 66 Psi (0.45 Mpa), Unannealed, 0.125 In (3.18 Mm)	280 °F	138 °C	ASTM D648
264 Psi (1.8 Mpa), Unannealed, 0.125 In (3.18 Mm)	259 °F	126 °C	
Vicat Softening Temperature	306 °F	152 °C	ASTM D1525 ⁴

- Notes**
- ¹ Procedure A
 - ² Type I, 2.0 in/min (51 mm/min)
 - ³ 0.050 in/min (1.3 mm/min)
 - ⁴ Rate B (120°C/h), Loading 1 (10 N)

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