

Technical Data Sheet

Diamond Abs 3501 Black 1300

Acrylonitrile Butadiene Styrene
 LyondellBasell Industries
 Engineering Plastics

General			
Features	• High Impact Resistance		
Agency Ratings	• EC 1907/2006 (REACH)	• EU 2002/96/EC (WEEE)	• FDA
RoHS Compliance	• RoHS Compliant		
UL File Number	• E150937		
Forms	• Pellets		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.05	1.05 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (200°C/5.0 Kg)	1.0 g/10 min	1.0 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ² (Yield)	6500 psi	44.8 MPa	ASTM D638
Flexural Modulus - Tangent ³	340000 psi	2340 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)	6.0 ft·lb/in	320 J/m	ASTM D256

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-scale)	108	108	ASTM D785

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 Psi (1.8 Mpa), Unannealed, 0.125 In (3.18 Mm)	171 °F	77.2 °C	ASTM D648
264 Psi (1.8 Mpa), Annealed, 0.125 In (3.18 Mm)	201 °F	93.9 °C	
Vicat Softening Temperature	219 °F	104 °C	ASTM D1525 ⁴

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.06 In (1.5 Mm))	HB	HB	UL 94

- Notes**
- ¹ Procedure A
 - ² 2.0 in/min (51 mm/min)
 - ³ 0.050 in/min (1.3 mm/min)
 - ⁴ Loading 1 (10 N)

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