

Technical Data Sheet

Diamond ABS TR 5000

AS/P L

Acrylonitrile Butadiene Styrene
Engineering Plastics



General	
Additive	• Antistatic
Features	• Antistatic
Agency Ratings	• EC 1907/2006 (REACH) • EU 2002/96/EC (WEEE)
RoHS Compliance	• RoHS Compliant
UL File NumberUSA	• E150937
Appearance	• Clear/Transparent
Forms	• Pellets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.06	1.06 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.4 g/10 min	2.4 g/10 min	ASTM D1238
Molding Shrinkage - Flow	4.0E-3 to 7.0E-3 in/in	0.40 to 0.70 %	ASTM D955
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹ (Yield)	7370 psi	50.8 MPa	ASTM D638
Flexural Modulus ²	400000 psi	2760 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (0.125 in (3.18 mm))	2.3 ft·lb/in	120 J/m	ASTM D256A
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	112	112	ASTM D785
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)	149 °F	65.0 °C	
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	181 °F	82.8 °C	
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	1.0E+10 ohms	1.0E+10 ohms	ASTM D257
Volume Resistivity	1.0E+10 ohms·cm	1.0E+10 ohms·cm	ASTM D257
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating	HB	HB	UL 94

Notes

¹ 2.0 in/min (51 mm/min)

² 0.050 in/min (1.3 mm/min)

Notes

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