

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.