**ABS 556**

Extrusion Grade

**Typical Material Properties**

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| General | Nominal Values | ASTM Test Method  (Other) |
| Specific Gravity | 1.06 | D 792 |
| Density | 0.038 lb/in3 | D 792 |
| Specific Volume | 26.4 in3/lb | D 792 |
| Melt Flow Rate |  | D 1238 |
| 230°C / 10-kg Load | 10.0 g/10 min |  |
| Gloss, 60°, Sheet | <10% | D 523 |

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| Mechanical Properties |  |  |
| Tensile Stress at Yield | 2,800 lb/in2 | D 638 |
| Tensile Stress at Break | 3,200 lb/in2 | D 638 |
| Tensile Modulus | 220,00 lb/in2 | D 638 |
| Flexural Stress at Yield | 4,500 lb/in2 | D 790 |
| Flexural Modulus | 210,000 lb/in2 | D 790 |
| Impact Strength, Notched Izod: |  | D 256 |
| 0.125-in (3.2-mm) Thickness |  |  |
| 73°F | 2.0 ft-lb/in |  |
| 0oF | 1.3 ft-lb/in |  |
| -40°F | 1.0 ft-lb/in |  |
| Instrumented Impact |  | D 3763 |
| Peak energy |  |  |
| 73oF | 19 ft-lb |  |
| 0oF | 14 ft-lb |  |
| -30oF | 10 ft-lb |  |
| Total Energy |  |  |
| 73oF | 22 ft-lb |  |
| 0oF | 17 ft-lb |  |
| -30oF | 12 ft-lb |  |

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| Thermal |  |  |
| Deflection Temperature Under Load: |  | D 648 |
| Unannealed, 264 psi (1.82 MPa) | 187oF |  |
| Unannealed, 66 psi (0.46 MPa) | 205oF |  |
| Coefficient of Linear Thermal Expansion | 5.4 E-05in/in/oF | D 696 |
| Relative Temperature Index: |  | (UL746B) |
| 1.47-mm (0.058-in) Thickness |  |  |
| Electrical |  | 140oF |
| Mechanical with Impact |  | 140oF |
| Mechanical without Impact |  | 140oF |

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| Flammability |  |  |
| UL94 Flame Class: |  | (UL94) |
| 1.5-mm Thickness | HB |  |