**ABS 552**

Extrusion Grade

**Typical Material Properties**

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| General | Nominal Values | ASTM Test Method  (Other) |
| Specific Gravity | 1.05 | 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 | 11.0 g/10 min |  |
| 220oC/10-kg Load | 6.0g/10 min |  |
| Gloss, 60°, Sheet (Formed) | 90 (<20)% | D 523 |

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| Mechanical Properties |  |  |
| Tensile Stress at Yield | 5,200 lb/in2 | D 638 |
| Tensile Modulus | 290.00 lb/in2 | D 638 |
| Flexural Stress at Yield | 8,600 lb/in2 | D 790 |
| Flexural Modulus | 290,000 lb/in2 | D 790 |
| Impact Strength, Notched Izod: |  | D256 |
| 0.125-in (3.2-mm) Thickness |  |  |
| 73°F | 4.9 ft-lb/in |  |
| 0oF | 2.4 ft-lb/in |  |
| -30°F | 1.9 ft-lb/in |  |
| Instrument Impact |  | D 3763 |
| Peak Energy |  |  |
| 73oF | 22 ft-lb |  |
| 0oF | 17 ft-lb |  |
| -30oF | 13 ft-lb |  |
| Total Energy |  |  |
| 73oF | 32 ft-lb |  |
| 0oF | 21 ft-lb |  |
| -30oF | 13 ft-lb |  |
| Rockwell Hardness, R Scale | 103 | D 785 |

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| Thermal |  |  |
| Deflection Temperature Under Load: |  | D 648 |
| Unannealed, 264 psi (1.82 MPa) | 190oF |  |
| Unannealed, 66 psi (0.46 MPa) | 200oF |  |
| Coefficient of Linear Thermal Expansion | 4.6 E-05 in/in/oF | D 696 |
| Relative Temperature Index: |  | (UL746B) |
| 0.059-in (1.5-mm) Thickness |  |  |
| Electrical | 140oF |  |
| Mechanical with Impact | 140oF |  |
| Mechanical without Impact | 140oF |  |

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| Flammability |  |  |
| UL94 Flame Class: |  | (UL94) |
| 0.059-in (1.5-mm) Thickness | HB |  |