

| Processing/Physical Characteristics | Value  | Unit  | Test Standard |
|-------------------------------------|--------|-------|---------------|
| <b>ASTM Data</b>                    |        |       |               |
| Mold Shrinkage, MD                  | 0.0045 | mm/mm | ASTM D 955    |
| Mold Shrinkage, TD                  | 0.0065 | mm/mm | ASTM D 955    |

| Mechanical properties                 | dry / cond    | Unit              | Test Standard |
|---------------------------------------|---------------|-------------------|---------------|
| <b>ISO Data</b>                       |               |                   |               |
| Charpy impact strength, +23°C         | 55 / 63       | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Charpy notched impact strength, +23°C | 11 / 15       | kJ/m <sup>2</sup> | ISO 179/1eA   |
| <b>ASTM Data</b>                      |               |                   |               |
| Tensile Modulus                       | 9400 / 7500   | MPa               | ASTM D 638    |
| Tensile Strength                      | 160 / 110     | MPa               | ASTM D 638    |
| Flexural Modulus                      | 8900 / 6800   | MPa               | ASTM D 790    |
| Flexural Strength                     | 230 / 170     | MPa               | ASTM D 790    |
| Rockwell Hardness                     | R 120 / R 115 | -                 | ASTM D 785    |

| Thermal properties                   | Value | Unit  | Test Standard |
|--------------------------------------|-------|-------|---------------|
| <b>ASTM Data</b>                     |       |       |               |
| UL 94 Flame rating                   | V-0   | -     | UL 94         |
| Coefficient of Thermal Expansion, MD | 30    | E-6/K | ASTM D 696    |
| DTUL @ 66 psi                        | 250   | °C    | ASTM D 648    |
| DTUL @ 264 psi                       | 225   | °C    | ASTM D 648    |
| Melting Temperature                  | 260   | °C    | ASTM D 3418   |

| Electrical properties           | dry / cond | Unit   | Test Standard |
|---------------------------------|------------|--------|---------------|
| <b>ASTM Data</b>                |            |        |               |
| Dielectric Strength, Short Time | 42 / -     | kV/mm  | ASTM D 149    |
| Dissipation Factor, 1 MHz       | 0.01 / -   | -      | ASTM D 150    |
| Dielectric Constant, 1 MHz      | 3.3 / -    | -      | ASTM D 150    |
| Volume Resistivity              | 1E15 / -   | Ohm*cm | ASTM D 257    |

| Other properties       | Value | Unit              | Test Standard |
|------------------------|-------|-------------------|---------------|
| Water Absorption, 24hr | 0.7   | %                 | ASTM D 570    |
| Density                | 1570  | kg/m <sup>3</sup> | ASTM D 792    |

**Characteristics**

**Special Characteristics**  
Heat stabilized or stable to heat

**Regional Availability**  
North America, Asia Pacific

**Applications**  
Automotive, Electrical and Electronical