

| Processing/Physical Characteristics | Value        | Unit  | Test Standard |
|-------------------------------------|--------------|-------|---------------|
| <b>ASTM Data</b>                    |              |       |               |
| Mold Shrinkage, MD                  | <b>0.007</b> | mm/mm | ASTM D 955    |
| Mold Shrinkage, TD                  | <b>0.01</b>  | mm/mm | ASTM D 955    |

| Mechanical properties                 | dry / cond           | Unit              | Test Standard |
|---------------------------------------|----------------------|-------------------|---------------|
| <b>ISO Data</b>                       |                      |                   |               |
| Charpy impact strength, +23°C         | <b>80 / 95</b>       | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Charpy notched impact strength, +23°C | <b>17 / 21</b>       | kJ/m <sup>2</sup> | ISO 179/1eA   |
| <b>ASTM Data</b>                      |                      |                   |               |
| Tensile Modulus                       | <b>130 / 95</b>      | MPa               | ASTM D 638    |
| Tensile Strength                      | <b>6300 / 4500</b>   | MPa               | ASTM D 638    |
| Flexural Modulus                      | <b>5500 / 4300</b>   | MPa               | ASTM D 790    |
| Flexural Strength                     | <b>195 / 160</b>     | MPa               | ASTM D 790    |
| Rockwell Hardness                     | <b>R 120 / R 115</b> | -                 | ASTM D 785    |

| Thermal properties  | Value      | Unit | Test Standard |
|---------------------|------------|------|---------------|
| <b>ASTM Data</b>    |            |      |               |
| UL 94 Flame rating  | <b>HB</b>  | -    | UL 94         |
| DTUL @ 66 psi       | <b>255</b> | °C   | ASTM D 648    |
| DTUL @ 264 psi      | <b>250</b> | °C   | ASTM D 648    |
| Melting Temperature | <b>260</b> | °C   | ASTM D 3418   |

| Electrical properties           | dry / cond      | Unit   | Test Standard |
|---------------------------------|-----------------|--------|---------------|
| <b>ASTM Data</b>                |                 |        |               |
| Dielectric Strength, Short Time | <b>32 / -</b>   | kV/mm  | ASTM D 149    |
| Dissipation Factor, 1 MHz       | <b>0.01 / -</b> | -      | ASTM D 150    |
| Dielectric Constant, 1 MHz      | <b>3.7 / -</b>  | -      | ASTM D 150    |
| Volume Resistivity              | <b>1E15 / -</b> | Ohm*cm | ASTM D 257    |

| Other properties       | Value       | Unit              | Test Standard |
|------------------------|-------------|-------------------|---------------|
| Water Absorption, 24hr | <b>1</b>    | %                 | ASTM D 570    |
| Density                | <b>1230</b> | kg/m <sup>3</sup> | ASTM D 792    |

**Characteristics**

**Special Characteristics**  
High impact or impact modified

**Regional Availability**  
North America, Asia Pacific

**Applications**  
Automotive, Electrical and Electronical