

| Processing/Physical Characteristics      | Value | Unit              | Test Standard   |
|--|-------|-------------------|-----------------|
| <b>ISO Data</b>                          |       |                   |                 |
| Molding shrinkage, parallel              | 0.6   | %                 | ISO 294-4, 2577 |
| <b>ASTM Data</b>                         |       |                   |                 |
| Mold Shrinkage, MD                       | 0.005 | mm/mm             | ASTM D 955      |
| <b>Mechanical properties</b>             |       |                   |                 |
| <b>ISO Data</b>                          |       |                   |                 |
| Tensile Strength                         | 229   | MPa               | ISO 527         |
| Flexural modulus                         | 10200 | MPa               | ISO 178         |
| Flexural strength                        | 311   | MPa               | ISO 178         |
| Charpy impact strength, +23°C            | 59    | kJ/m <sup>2</sup> | ISO 179/1eU     |
| Charpy notched impact strength, +23°C    | 26    | kJ/m <sup>2</sup> | ISO 179/1eA     |
| Rockwell hardness                        | R 122 | -                 | ISO 2039-2      |
| <b>ASTM Data</b>                         |       |                   |                 |
| Tensile Modulus                          | 13900 | MPa               | ASTM D 638      |
| Tensile Strength                         | 200   | MPa               | ASTM D 638      |
| Flexural Modulus                         | 12100 | MPa               | ASTM D 790      |
| Flexural Strength                        | 295   | MPa               | ASTM D 790      |
| Rockwell Hardness                        | R 122 | -                 | ASTM D 785      |
| <b>Thermal properties</b>                |       |                   |                 |
| <b>ISO Data</b>                          |       |                   |                 |
| Melting temperature, 10°C/min            | 222   | °C                | ISO 11357-1/-3  |
| Temp. of deflection under load, 1.80 MPa | 210   | °C                | ISO 75-1/-2     |
| Burning behav. at thickness h            | HB    | class             | IEC 60695-11-10 |
| <b>ASTM Data</b>                         |       |                   |                 |
| UL 94 Flame rating                       | HB    | -                 | UL 94           |
| DTUL @ 264 psi                           | 210   | °C                | ASTM D 648      |
| Melting Temperature                      | 222   | °C                | ASTM D 3418     |
| <b>Electrical properties</b>             |       |                   |                 |
| <b>ISO Data</b>                          |       |                   |                 |
| Relative permittivity, 1MHz              | 3.7   | -                 | IEC 62631-2-1   |
| Dissipation factor, 1MHz                 | 0.01  | E-4               | IEC 62631-2-1   |
| Volume resistivity                       | 1E13  | Ohm*m             | IEC 62631-3-1   |
| Electric strength                        | 34    | kV/mm             | IEC 60243-1     |
| <b>ASTM Data</b>                         |       |                   |                 |
| Dielectric Strength, Short Time          | 22    | kV/mm             | ASTM D 149      |
| Dissipation Factor, 1 MHz                | 0.02  | -                 | ASTM D 150      |
| Dielectric Constant, 1 MHz               | 3.8   | -                 | ASTM D 150      |
| Volume Resistivity                       | 1E15  | Ohm*cm            | ASTM D 257      |
| <b>Other properties</b>                  |       |                   |                 |
| Water absorption                         | 0.5   | %                 | Sim. to ISO 62  |
| Density                                  | 1440  | kg/m <sup>3</sup> | ISO 1183        |
| Water Absorption, 24hr                   | 1     | %                 | ASTM D 570      |
| Density                                  | 1450  | kg/m <sup>3</sup> | ASTM D 792      |

**Characteristics**

**Special Characteristics**

High impact or impact modified

**Features**

Creep Resistance, Long fiber reinforced

**Applications**

Automotive, Electrical and Electronical

**Regional Availability**

North America, Asia Pacific