

| Processing/Physical Characteristics      | dry / cond  | Unit              | Test Standard   |
|--|-------------|-------------------|-----------------|
| <b>ISO Data</b>                          |             |                   |                 |
| Molding shrinkage, parallel              | 0.8 / *     | %                 | ISO 294-4, 2577 |
| <b>ASTM Data</b>                         |             |                   |                 |
| Mold Shrinkage, MD                       | 0.0065      | mm/mm             | ASTM D 955      |
| <b>Mechanical properties</b>             |             |                   |                 |
| <b>ISO Data</b>                          |             |                   |                 |
| Yield stress                             | 94 / -      | MPa               | ISO 527         |
| Strain at break                          | 3.3 / -     | %                 | ISO 527         |
| Flexural modulus, 23°C                   | 3800 / -    | MPa               | ISO 178         |
| Izod notched impact strength, +23°C      | 12 / -      | kJ/m <sup>2</sup> | ISO 180/1A      |
| <b>ASTM Data</b>                         |             |                   |                 |
| Tensile Strength at Yield                | 96.5 / 62.1 | MPa               | ASTM D 638      |
| Elongation at Break                      | 3 / -       | %                 | ASTM D 638      |
| Flexural Modulus                         | 3790 / 2140 | MPa               | ASTM D 790      |
| Flexural Strength                        | 159 / 82.7  | MPa               | ASTM D 790      |
| Rockwell Hardness                        | M 82 / M 76 | -                 | ASTM D 785      |
| Izod Impact notched, 1/8 in              | 130 / 140   | J/m               | ASTM D 256      |
| <b>Thermal properties</b>                |             |                   |                 |
| <b>ISO Data</b>                          |             |                   |                 |
| Temp. of deflection under load, 1.80 MPa | 231 / *     | °C                | ISO 75-1/-2     |
| <b>ASTM Data</b>                         |             |                   |                 |
| UL 94 Flame rating                       | HB          | -                 | UL 94           |
| Coefficient of Thermal Expansion, MD     | 32          | E-6/K             | ASTM D 696      |
| DTUL @ 264 psi                           | 229         | °C                | ASTM D 648      |
| <b>Electrical properties</b>             |             |                   |                 |
| <b>ASTM Data</b>                         |             |                   |                 |
| Dielectric Strength, Short Time          | 21 / -      | kV/mm             | ASTM D 149      |
| Volume Resistivity                       | 1E15 / -    | Ohm*cm            | ASTM D 257      |
| <b>Other properties</b>                  |             |                   |                 |
| Density                                  | 1190 / -    | kg/m <sup>3</sup> | ISO 1183        |
| Water Absorption, 24hr                   | 0.7         | %                 | ASTM D 570      |
| Density                                  | 1190        | kg/m <sup>3</sup> | ASTM D 792      |

## Characteristics

### Processing

Injection Molding

### Delivery form

Pellets, Black, Natural Color

### Additives

Lubricants

### Special Characteristics

Heat stabilized or stable to heat

### Applications

Automotive

### Regional Availability

North America