

| Processing/Physical Characteristics | Value | Unit  | Test Standard   |
|-------------------------------------|-------|-------|-----------------|
| <b>ISO Data</b>                     |       |       |                 |
| Molding shrinkage, parallel         | 1.1   | %     | ISO 294-4, 2577 |
| <b>ASTM Data</b>                    |       |       |                 |
| Mold Shrinkage, MD                  | 0.017 | mm/mm | ASTM D 955      |

| Mechanical properties                 | Value | Unit              | Test Standard |
|---------------------------------------|-------|-------------------|---------------|
| <b>ISO Data</b>                       |       |                   |               |
| Tensile Strength                      | 22    | MPa               | ISO 527       |
| Flexural modulus                      | 1000  | MPa               | ISO 178       |
| Flexural strength                     | 25    | MPa               | ISO 178       |
| Charpy impact strength, +23°C         | 60    | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Charpy notched impact strength, +23°C | 20    | kJ/m <sup>2</sup> | ISO 179/1eA   |
| Rockwell hardness                     | R 90  | -                 | ISO 2039-2    |
| <b>ASTM Data</b>                      |       |                   |               |
| Tensile Modulus                       | 1300  | MPa               | ASTM D 638    |
| Tensile Strength                      | 26    | MPa               | ASTM D 638    |
| Flexural Modulus                      | 1200  | MPa               | ASTM D 790    |
| Flexural Strength                     | 31    | MPa               | ASTM D 790    |
| Rockwell Hardness                     | R 90  | -                 | ASTM D 785    |

| Thermal properties                       | Value | Unit  | Test Standard   |
|------------------------------------------|-------|-------|-----------------|
| <b>ISO Data</b>                          |       |       |                 |
| Melting temperature, 10°C/min            | 163   | °C    | ISO 11357-1/-3  |
| Temp. of deflection under load, 1.80 MPa | 65    | °C    | ISO 75-1/-2     |
| Temp. of deflection under load, 0.45 MPa | 150   | °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 @ 66 psi                            | 115   | °C    | ASTM D 648      |
| DTUL @ 264 psi                           | 65    | °C    | ASTM D 648      |
| Melting Temperature                      | 163   | °C    | ASTM D 3418     |

| Other properties | Value | Unit              | Test Standard |
|------------------|-------|-------------------|---------------|
| Density          | 910   | kg/m <sup>3</sup> | ISO 1183      |
| Density          | 910   | kg/m <sup>3</sup> | ASTM D 792    |

**Characteristics**

**Special Characteristics**  
High impact or impact modified

**Regional Availability**  
North America, Asia Pacific

**Applications**  
Automotive