

**Product Texts**

Electrically Insulating.

| <b>Processing/Physical Characteristics</b> | <b>dry / cond</b> | <b>Unit</b> | <b>Test Standard</b> |
|--|-------------------|-------------|----------------------|
| <b>ISO Data</b>                            |                   |             |                      |
| Molding shrinkage, parallel                | 0.1 / *           | %           | ISO 294-4, 2577      |

| <b>Mechanical properties</b>          | <b>dry / cond</b> | <b>Unit</b>       | <b>Test Standard</b> |
|---------------------------------------|-------------------|-------------------|----------------------|
| <b>ISO Data</b>                       |                   |                   |                      |
| Tensile Modulus                       | 17500 / 17500     | MPa               | ISO 527              |
| Stress at break                       | 270 / 235         | MPa               | ISO 527              |
| Strain at break                       | 2.1 / 2           | %                 | ISO 527              |
| Flexural modulus, 23°C                | 16000 / -         | MPa               | ISO 178              |
| Flexural strength                     | 360 / -           | MPa               | ISO 178              |
| Charpy impact strength, +23°C         | 98 / 95           | kJ/m <sup>2</sup> | ISO 179/1eU          |
| Charpy impact strength, -30°C         | 90 / -            | kJ/m <sup>2</sup> | ISO 179/1eU          |
| Charpy notched impact strength, +23°C | 38 / 35           | kJ/m <sup>2</sup> | ISO 179/1eA          |
| Charpy notched impact strength, -30°C | 35 / -            | kJ/m <sup>2</sup> | ISO 179/1eA          |

| <b>Thermal properties</b>                   | <b>dry / cond</b> | <b>Unit</b> | <b>Test Standard</b> |
|---|-------------------|-------------|----------------------|
| <b>ISO Data</b>                             |                   |             |                      |
| Temp. of deflection under load, 1.80 MPa    | 255 / *           | °C          | ISO 75-1/-2          |
| Temp. of deflection under load, 0.45 MPa    | 260 / *           | °C          | ISO 75-1/-2          |
| Coeff. of linear therm. expansion, parallel | 20 / *            | E-6/K       | ISO 11359-1/-2       |

| <b>Electrical properties</b> | <b>dry / cond</b> | <b>Unit</b> | <b>Test Standard</b> |
|------------------------------|-------------------|-------------|----------------------|
| <b>ISO Data</b>              |                   |             |                      |
| Electric strength            | 35 / -            | kV/mm       | IEC 60243-1          |
| Comparative tracking index   | 600 / -           | -           | IEC 60112            |
| <b>ASTM Data</b>             |                   |             |                      |
| Surface Resistivity          | * / 1E13          | Ohm         | ASTM D 257           |

| <b>Other properties</b> | <b>dry / cond</b> | <b>Unit</b>       | <b>Test Standard</b> |
|-------------------------|-------------------|-------------------|----------------------|
| Humidity absorption     | 1.4 / *           | %                 | Sim. to ISO 62       |
| Density                 | 1590 / -          | kg/m <sup>3</sup> | ISO 1183             |

| <b>Processing Recommendation Injection Molding</b> | <b>Value</b> | <b>Unit</b> | <b>Test Standard</b> |
|--|--------------|-------------|----------------------|
| Pre-drying - Temperature                           | 80           | °C          | -                    |
| Pre-drying - Time                                  | 4 - 8        | h           | -                    |
| Processing humidity                                | ≤0.1         | %           | -                    |
| Melt temperature                                   | 320          | °C          | -                    |
| Mold temperature                                   | 80 - 120     | °C          | -                    |
| Zone 1   | 290 - 300    | °C          | -                    |
| Zone 2   | 300          | °C          | -                    |
| Zone 3   | 300          | °C          | -                    |
| Nozzle temperature                                 | 300          | °C          | -                    |

**Characteristics**

**Processing**

Injection Molding, Compression Molding

**Delivery form**

Pellets

**Special Characteristics**

High impact or impact modified, Heat stabilized or stable to heat

**Features**

Creep Resistance, Fatigue Resistance, Long fiber reinforced, Low Warpage

**Applications**

Aircraft and Aerospace, Automotive, Electrical and Electronical

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America,  
Near East/Africa