

| Processing/Physical Characteristics | dry / cond | Unit                   | Test Standard   |
|-------------------------------------|------------|------------------------|-----------------|
| <b>ISO Data</b>                     |            |                        |                 |
| Melt volume-flow rate, MVR          | 30 / *     | cm <sup>3</sup> /10min | ISO 1133        |
| Temperature                         | 275 / *    | °C                     | -               |
| Load                                | 5 / *      | kg                     | -               |
| Molding shrinkage, parallel         | 0.3 / *    | %                      | ISO 294-4, 2577 |
| Molding shrinkage, normal           | 1.0 / *    | %                      | ISO 294-4, 2577 |

| Mechanical properties                 | dry / cond   | Unit              | Test Standard |
|---------------------------------------|--------------|-------------------|---------------|
| <b>ISO Data</b>                       |              |                   |               |
| Tensile Modulus                       | 11000 / 7000 | MPa               | ISO 527       |
| Tensile Strength                      | 185 / 120    | MPa               | ISO 527       |
| Strain at break                       | 4 / 6        | %                 | ISO 527       |
| Flexural modulus, 23°C                | 10000 / 6000 | MPa               | ISO 178       |
| Charpy impact strength, +23°C         | 95 / 100     | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Charpy notched impact strength, +23°C | 17 / 25      | kJ/m <sup>2</sup> | ISO 179/1eA   |
| Izod notched impact strength, +23°C   | 18 / 27      | kJ/m <sup>2</sup> | ISO 180/1A    |
| Ball indentation hardness             | 220 / -      | MPa               | ISO 2039-1    |

| Thermal properties                          | dry / cond | Unit  | Test Standard   |
|---|------------|-------|-----------------|
| <b>ISO Data</b>                             |            |       |                 |
| Melting temperature, 10°C/min               | 221 / *    | °C    | ISO 11357-1/-3  |
| Temp. of deflection under load, 1.80 MPa    | 200 / *    | °C    | ISO 75-1/-2     |
| Vicat softening temperature, B              | 210 / *    | °C    | ISO 306         |
| Coeff. of linear therm. expansion, parallel | 10 / *     | E-6/K | ISO 11359-1/-2  |
| Coeff. of linear therm. expansion, normal   | 110 / *    | E-6/K | ISO 11359-1/-2  |
| Burning behav. at thickness h               | HB / *     | class | IEC 60695-11-10 |
| Thickness tested                            | 3.2 / *    | mm    | -               |

| Electrical properties       | dry / cond  | Unit  | Test Standard |
|-----------------------------|-------------|-------|---------------|
| <b>ISO Data</b>             |             |       |               |
| Relative permittivity, 1MHz | 3.7 / 4.7   | -     | IEC 62631-2-1 |
| Dissipation factor, 1MHz    | 160 / 1300  | E-4   | IEC 62631-2-1 |
| Volume resistivity          | 1E13 / 1E10 | Ohm*m | IEC 62631-3-1 |
| Surface resistivity         | * / 1E11    | Ohm   | IEC 62631-3-2 |
| Electric strength           | 31 / 27     | kV/mm | IEC 60243-1   |
| Comparative tracking index  | 525 / 525   | -     | IEC 60112     |

| Other properties    | dry / cond | Unit              | Test Standard  |
|---------------------|------------|-------------------|----------------|
| Water absorption    | 6 / *      | %                 | Sim. to ISO 62 |
| Humidity absorption | 1.8 / *    | %                 | Sim. to ISO 62 |
| Density             | 1400 / -   | kg/m <sup>3</sup> | ISO 1183       |

## Characteristics

### Processing

Injection Molding

### Delivery form

Granules, Black, Natural Color

### Special Characteristics

Heat stabilized or stable to heat

### Applications

Automotive, Building Construction, Electrical and Electronical

### Regional Availability

Europe