

| Processing/Physical Characteristics         | Value | Unit              | Test Standard   |
|---------------------------------------------|-------|-------------------|-----------------|
| <b>ISO Data</b>                             |       |                   |                 |
| Melt flow index, MFI                        | 20    | g/10min           | ISO 1133        |
| Temperature                                 | 300   | °C                | -               |
| Load                                        | 1.2   | kg                | -               |
| Molding shrinkage, parallel                 | 0.5   | %                 | ISO 294-4, 2577 |
| Molding shrinkage, normal                   | 0.7   | %                 | ISO 294-4, 2577 |
| <b>Mechanical properties</b>                |       |                   |                 |
| Value                                       | Unit  | Test Standard     |                 |
| <b>ISO Data</b>                             |       |                   |                 |
| Tensile Modulus                             | 2350  | MPa               | ISO 527         |
| Yield stress                                | 65    | MPa               | ISO 527         |
| Yield strain                                | 6.3   | %                 | ISO 527         |
| Stress at break                             | 75    | MPa               | ISO 527         |
| Strain at break                             | 125   | %                 | ISO 527         |
| Flexural modulus, 23°C                      | 2350  | MPa               | ISO 178         |
| Flexural strength                           | 96    | MPa               | ISO 178         |
| Charpy impact strength, +23°C               | N     | kJ/m <sup>2</sup> | ISO 179/1eU     |
| Charpy impact strength, -30°C               | N     | kJ/m <sup>2</sup> | ISO 179/1eU     |
| Charpy notched impact strength, +23°C       | 80    | kJ/m <sup>2</sup> | ISO 179/1eA     |
| Charpy notched impact strength, -30°C       | 18    | kJ/m <sup>2</sup> | ISO 179/1eA     |
| Izod notched impact strength, +23°C         | 90    | kJ/m <sup>2</sup> | ISO 180/1A      |
| Izod notched impact strength                | 16    | kJ/m <sup>2</sup> | ISO 180/1A      |
| Temperature                                 | -30   | °C                | -               |
| <b>Thermal properties</b>                   |       |                   |                 |
| Value                                       | Unit  | Test Standard     |                 |
| <b>ISO Data</b>                             |       |                   |                 |
| Melting temperature, 10°C/min               | 280   | °C                | ISO 11357-1/-3  |
| Temp. of deflection under load, 1.80 MPa    | 129   | °C                | ISO 75-1/-2     |
| Temp. of deflection under load, 0.45 MPa    | 141   | °C                | ISO 75-1/-2     |
| Vicat softening temperature, B              | 149   | °C                | ISO 306         |
| Coeff. of linear therm. expansion, parallel | 65    | E-6/K             | ISO 11359-1/-2  |
| Coeff. of linear therm. expansion, normal   | 65    | E-6/K             | ISO 11359-1/-2  |
| Burning behav. at 1.5 mm nom. thickn.       | V-2   | class             | IEC 60695-11-10 |
| Thickness tested                            | 1.5   | mm                | -               |
| Burning behav. at thickness h               | V-2   | class             | IEC 60695-11-10 |
| Thickness tested                            | 0.8   | mm                | -               |
| Glow Wire Flammability Index (GWFI)         | 850   | °C                | IEC 60695-2-12  |
| GWFI - thickness tested (1)                 | 1     | mm                | -               |
| Glow Wire Flammability Index (GWFI)         | 850   | °C                | IEC 60695-2-12  |
| GWFI - thickness tested (2)                 | 1.5   | mm                | -               |
| Glow Wire Flammability Index (GWFI)         | 850   | °C                | IEC 60695-2-12  |
| GWFI - thickness tested (3)                 | 2     | mm                | -               |
| <b>Electrical properties</b>                |       |                   |                 |
| Value                                       | Unit  | Test Standard     |                 |
| <b>ISO Data</b>                             |       |                   |                 |
| Electric strength                           | 33    | kV/mm             | IEC 60243-1     |
| <b>Other Standards<sup>S1</sup></b>         |       |                   |                 |
| Relative permittivity, 100Hz                | 3.1   | -                 | IEC 60250       |
| Relative permittivity, 1MHz                 | 3     | -                 | IEC 60250       |
| Dissipation factor, 100Hz                   | 5     | E-4               | IEC 60250       |
| Dissipation factor, 1MHz                    | 85    | E-4               | IEC 60250       |
| Volume resistivity                          | 1E14  | Ohm*m             | IEC 60093       |
| Surface resistivity                         | 1E16  | Ohm               | IEC 60093       |

S: These properties are reported by the producer according standards that are different to our defaults.

| Other properties | Value       | Unit              | Test Standard  |
|------------------|-------------|-------------------|----------------|
| Water absorption | <b>0.3</b>  | %                 | Sim. to ISO 62 |
| Density          | <b>1200</b> | kg/m <sup>3</sup> | ISO 1183       |

| Processing Recommendation Extrusion | Value            | Unit | Test Standard |
|-------------------------------------|------------------|------|---------------|
| Pre-drying - Temperature            | <b>120</b>       | °C   | -             |
| Pre-drying - Time                   | <b>4</b>         | h    | -             |
| Melt temperature                    | <b>270 - 290</b> | °C   | -             |
| Mold temperature                    | <b>70 - 90</b>   | °C   | -             |

**Characteristics**

**Processing**

Other Extrusion

**Special Characteristics**

U.V. stabilized or stable to weather

**Features**

Light Diffusing

**Applications**

Electrical and Electronical

**Regional Availability**

North America, Europe, South and Central America