





## **Z-200-E2 GRAY**

- Product Summary: Z-200-E2 GRAY is an unfilled super tough PPS compound with excellent flexibility and toughness under a wide environmental atmosphere from very low temperature to high temperature.
- Color: Gray

**Engineering Properties** 

| Properties   | Test Method  | Unit   | Typical value                                    |
|--|--|--|--|
| General Information  |  |  | Unfilled<br>Impact modified                      |
| Physical   |  |  |  |
| Specific gravity Water absorption, 23°C/24Hrs. Mold shrinkage <sup>a</sup> Mechanical  | ISO 1183-1<br>ISO 62<br>ISO 294-4  | -<br>%<br>%  | 1.33<br>0.02<br>1.1/1.4                          |
| Tensile strength Tensile modulus Tensile strain at break Flexural strength Flexural modulus Flexural strain at break Charpy impact strength, notched unnotched | ISO 527-1,2<br>ISO 527-1,2<br>ISO 527-1,2<br>ISO 178<br>ISO 178<br>ISO 178<br>ISO 179/1eA<br>ISO 179/1eU | MPa<br>GPa<br>%<br>MPa<br>GPa<br>%<br>kJ/m²<br>kJ/m² | Y70<br>3.5<br>tB15<br>125<br>3.3<br>-<br>4<br>NB |
| Thermal  |  |  |  |
| Heat deflection temperature, 1.82MPa Co-eff. of thermal expansion MD/TDa, -50~50 °C Co-eff. of thermal expansion MD/TDa, 100~200 °C <b>Electrical</b>          | ISO 75-1,2<br>ISO 11359-2<br>ISO 11359-2   | °C<br>x 10 <sup>-5</sup> /K<br>x 10 <sup>-5</sup> /K | 105<br>4.0/5.0<br>13.0/13.0                      |
| Dielectric strength, t=1.0mm Dielectric constant, 1MHz Dissipation factor, 1MHz Comparative Tracking Index (CTI) Volume resistivity                            | IEC 60243-1<br>IEC 62631-2-1<br>IEC 62631-2-1<br>IEC 60112<br>IEC 62631-3-1                              | kV/mm<br>-<br>-<br>V<br>Ω·cm                         | 30<br>3<br>0.002<br>200<br>10 <sup>17</sup>      |
| Molding Condition Cylinder temperature Mold temperature  | ·  | °C<br>°C   | 290-320<br>130-150                               |

a: Flow direction/Transverse direction

## **DIC** Corporation

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<sup>\* :</sup> Y=Tensile stress at yield, tB=Nominal tensile strain at break, NB=Not Broken