

## Technical Data Sheet

### *Perlex* FR *Perlex* R3533 GRY6-2903



Polycarbonate

#### Product Description

30% glass fibre filled FR PC with added UV stabilisation matched to RAL 3020

|                             |                          |
|-----------------------------|--------------------------|
| <b>Additive</b>             | Flame Retardant          |
| <b>Application</b>          | Machine/Mechanical Parts |
| <b>Filler/Reinforcement</b> | Glass Fiber, 30%         |

| Typical Properties                                      | Nominal Value | Units    | Test Method    |
|---------------------------------------------------------|---------------|----------|----------------|
| <b>Physical</b>                                         |               |          |                |
| Melt Flow Rate, (300 °C/1.2 kg)                         | 8.0           | g/10 min | ISO 1133       |
| Density                                                 | 1.35          | g/cm³    | ISO 1183       |
| <b>Mechanical</b>                                       |               |          |                |
| Tensile Strain at Break                                 | 2             | %        | ISO 527-2      |
| Flexural Modulus                                        | 8000          | MPa      | ISO 178        |
| Tensile Stress at Break                                 | 95            | MPa      | ISO 527-2      |
| Tensile Modulus                                         | 8750          | MPa      | ISO 527-1      |
| Flexural Stress                                         | 143           | MPa      | ISO 178        |
| <b>Impact</b>                                           |               |          |                |
| Notched Izod Impact (Area), (23 °C)                     | 10.0          | kJ/m²    | ASTM D256      |
| <b>Thermal</b>                                          |               |          |                |
| Deflection Temperature Under Load Unannealed (1.80 MPa) | 135           | °C       | ISO 75-2/A     |
| <b>Flammable</b>                                        |               |          |                |
| Burning Rate                                            |               |          |                |
| (2.00 mm)                                               | <100          | mm/min   | FMVSS 302      |
| (2.00 mm)                                               | <100          | mm/min   | ISO 3795       |
| Glow Wire Ignition Temperature                          |               |          |                |
| (3.0 mm)                                                | 850           | °C       | IEC 60695-2-13 |
| (2.0 mm)                                                | 850           | °C       | IEC 60695-2-13 |
| (1.0 mm)                                                | 850           | °C       | IEC 60695-2-13 |
| <b>UL Information</b>                                   |               |          |                |
| Flame Rating                                            |               |          |                |
| (1.6 mm)                                                | V-0           |          | UL 94          |
| (3.2 mm)                                                | V-0           |          | UL 94          |