

## Technical Data Sheet

### *Solef* PVDF 8808/0902 BLK(TOL)



Polyvinylidene Fluoride

#### Product Description

Carbon fibres reinforced - Injection

#### Processing Method

Injection Molding

| Typical Properties                                                   | Nominal Value | Units                   | Test Method |
|----------------------------------------------------------------------|---------------|-------------------------|-------------|
| <b>Physical</b>                                                      |               |                         |             |
| Melt Volume Flow Rate                                                |               |                         |             |
| (230 °C/2.16 kg)                                                     | 3.0           | cm <sup>3</sup> /10 min | ISO 1133    |
| (230 °C/5.0 kg)                                                      | 8.0           | cm <sup>3</sup> /10 min | ISO 1133    |
| Density, (Method A)                                                  | 1.77          | g/cm <sup>3</sup>       | ISO 1183    |
| <b>Mechanical</b>                                                    |               |                         |             |
| Tensile Strain at Break, (Type 1A, 5 mm/min)                         | 1.0           | %                       | ISO 527-2   |
| Flexural Modulus, (2.0 mm/min)                                       | 7250          | MPa                     | ISO 178     |
| Tensile Stress at Break, (Type 1A, 5 mm/min)                         | 75.0          | MPa                     | ISO 527-2   |
| Tensile Modulus, (1 mm/min, Type 1A)                                 | 10200         | MPa                     | ISO 527-1   |
| Flexural Stress                                                      |               |                         |             |
| (2.0 mm/min, 2.5%)                                                   | 80.0          | MPa                     | ISO 178     |
| (2.0 mm/min, 1.8%)                                                   | 90.0          | MPa                     | ISO 178     |
| <b>Impact</b>                                                        |               |                         |             |
| Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A) | 6.0           | kJ/m <sup>2</sup>       | ISO 179     |
| Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)        | 16            | kJ/m <sup>2</sup>       | ISO 179     |
| <b>Hardness</b>                                                      |               |                         |             |
| Shore Hardness, (Shore D, 3 sec)                                     | 80            |                         | ISO 868     |
| <b>Thermal</b>                                                       |               |                         |             |
| Vicat Softening Temperature                                          |               |                         |             |
| (B (50N), 50 °C/h)                                                   | 145           | °C                      | ISO 306     |
| (A (10N), 50 °C/h)                                                   | 171           | °C                      | ISO 306     |
| Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)  | 162           | °C                      | ISO 75-2/B  |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)  | 151           | °C                      | ISO 75-2/A  |
| <b>Electrical</b>                                                    |               |                         |             |
| Thermal Conductivity                                                 | 0.36          | W/m/K                   | ISO 22007-2 |
| <b>Flammable</b>                                                     |               |                         |             |

|                                |     |    |                      |
|--------------------------------|-----|----|----------------------|
| Glow Wire Flammability Index   |     |    |                      |
| (1.5 mm)                       | 960 | °C | IEC 60695-2-12       |
| (3.0 mm)                       | 960 | °C | IEC 60695-2-12       |
| Glow Wire Ignition Temperature |     |    |                      |
| (1.5 mm)                       | 900 | °C | IEC 60695-2-13       |
| (3.0 mm)                       | 900 | °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                |
| Flammability Classification    |     |    |                      |
| (1.6 mm)                       | V-0 |    | IEC 60695-11-10, -20 |
| (3.2 mm)                       | V-0 |    | IEC 60695-11-10, -20 |