

**Ixef® 5002/0085**  
(PARA+PTFE)-GF20

Syensqo

| Rheological properties      | Value | Unit | Test Standard   |
|-----------------------------|-------|------|-----------------|
| <b>ISO Data</b>             |       |      |                 |
| Molding shrinkage, parallel | 0.3   | %    | ISO 294-4, 2577 |

| Mechanical Properties                  | Value | Unit | Test Standard |
|----------------------------------------|-------|------|---------------|
| <b>ISO Data</b>                        |       |      |               |
| Tensile Modulus                        | 10000 | MPa  | ISO 527       |
| Stress at Break                        | 135   | MPa  | ISO 527       |
| Strain at Break                        | 2.2   | %    | ISO 527       |
| Flexural Modulus (23°C)                | 8000  | MPa  | ISO 178       |
| Flexural strength                      | 215   | MPa  | ISO 178       |
| <b>ASTM Data</b>                       |       |      |               |
| Notched Impact Strength (Izod), 1/8 in | 60    | J/m  | ASTM D 256    |
| Impact Strength (Izod), 1/8 in         | 370   | J/m  | ASTM D 256    |

| Thermal Properties                          | Value | Unit  | Test Standard  |
|---------------------------------------------|-------|-------|----------------|
| <b>ISO Data</b>                             |       |       |                |
| Temp. of deflection under load (1.80 MPa)   | 220   | °C    | ISO 75-1/-2    |
| Coeff. of Linear Therm. Expansion, parallel | 29    | E-6/K | ISO 11359-1/-2 |
| Oxygen index                                | 23    | %     | ISO 4589-1/-2  |

| Electrical Properties      | Value | Unit  | Test Standard |
|----------------------------|-------|-------|---------------|
| <b>ISO Data</b>            |       |       |               |
| Volume Resistivity         | 1E13  | Ohm*m | IEC 62631-3-1 |
| Electric Strength          | 28    | kV/mm | IEC 60243-1   |
| Comparative tracking index | 600   | -     | IEC 60112     |

| Other Properties    | Value | Unit  | Test Standard  |
|---------------------|-------|-------|----------------|
| <b>ISO Data</b>     |       |       |                |
| Humidity absorption | 1.8   | %     | Sim. to ISO 62 |
| Density             | 1510  | kg/m³ | ISO 1183       |

| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---------------------------------------------|-----------|------|---------------|
| Pre-drying - Temperature                    | 120       | °C   | -             |
| Pre-drying - Time                           | 0.5 - 1.5 | h    | -             |
| Melt temperature                            | 280       | °C   | -             |
| Mold temperature                            | 120 - 140 | °C   | -             |
| Zone 1                                      | 250 - 260 | °C   | -             |
| Zone 2                                      | 260 - 290 | °C   | -             |

**Characteristics**
**Processing**

Injection Molding

**Delivery form**

Pellets, Natural Color

**Features**

Creep Resistance, High Gloss, Tribologic Grade

**Chemical Resistance**

General Chemical Resistance

**Applications**

Automotive, IT / Business Machine, Electrical and Electronical