

## TECNOPRENE® FK5U SR - PP

Experimental Grade. Please contact your Celanese representative for further information.

### Description

Polypropylene, 25% glass fiber reinforced, chemically coupled, UV stabilised, scratch resistant

| Physical properties | Value | Unit              | Test Standard |
|---------------------|-------|-------------------|---------------|
| Density             | 1090  | kg/m <sup>3</sup> | ISO 1183      |
| Melt flow rate, MFR | 9     | g/10min           | ISO 1133      |
| MFR temperature     | 230   | °C                | ISO 1133      |
| MFR load            | 2.16  | kg                | ISO 1133      |

| Mechanical properties                 | Value | Unit              | Test Standard |
|---------------------------------------|-------|-------------------|---------------|
| Tensile modulus                       | 5000  | MPa               | ISO 527-2/1A  |
| Tensile stress at break, 5mm/min      | 68    | MPa               | ISO 527-2/1A  |
| Tensile strain at break, 5mm/min      | 4     | %                 | ISO 527-2/1A  |
| Flexural modulus, 23°C                | 4800  | MPa               | ISO 178       |
| Flexural strength, 23°C               | 110   | MPa               | ISO 178       |
| Charpy notched impact strength, 23°C  | 12    | kJ/m <sup>2</sup> | ISO 179/1eA   |
| Charpy notched impact strength, -30°C | 8     | kJ/m <sup>2</sup> | ISO 179/1eA   |

| Mechanical properties (TPE) | Value | Unit | Test Standard |
|-----------------------------|-------|------|---------------|
| Shore D hardness, 15s       | 70    | -    | ISO 868       |

| Thermal properties               | Value | Unit  | Test Standard |
|----------------------------------|-------|-------|---------------|
| DTUL at 1.8 MPa                  | 138   | °C    | ISO 75-1, -2  |
| Flammability @1.6mm nom. thickn. | HB    | class | UL 94         |

### Typical injection moulding processing conditions

| Pre Drying         | Value     | Unit | Test Standard |
|--------------------|-----------|------|---------------|
| Drying time        | 2 - 3     | h    | -             |
| Drying temperature | 80 - 100  | °C   | -             |
| Temperature        | Value     | Unit | Test Standard |
| Zone1 temperature  | 200 - 220 | °C   | -             |
| Zone2 temperature  | 220 - 240 | °C   | -             |
| Zone3 temperature  | 240 - 260 | °C   | -             |
| Nozzle temperature | 240 - 260 | °C   | -             |
| Mold temperature   | 50 - 80   | °C   | -             |

### Other text information

#### Longer pre-drying times/storage

This product should be stored in a covered facility and kept away from moisture and heat.

### Characteristics

| Special Characteristics | Processing        |
|-------------------------|-------------------|
| UV resistant            | Injection molding |

### Product Categories

Glass reinforced