

## Product Information

### Product description

INNOPOL® CS 1-3830 is a 30% glass fiber filled polypropylene homopolymer compound. This grade is available in nature and custom coloured form.

### Recommended application

INNOPOL® CS 1-3830 is recommended for producing injection molded products, where the required properties are excellent stiffness and impact strength besides good processability.

| Physical properties/Typical values           | Test method  | Unit              | Mean value |
|----------------------------------------------|--------------|-------------------|------------|
| <b>Properties</b>                            |              |                   |            |
| Abbreviated term                             | ISO 1043     | -                 | PPH GF30   |
| Colour                                       | -            | -                 | nature     |
| Density 23°C                                 | ISO 1183     | g/cm <sup>3</sup> | 1.13       |
| <b>Rheology</b>                              |              |                   |            |
| Melt Mass Flow Rate MFR (230°C/2,16kg)       | ISO 1133     | g/10 min          | 10         |
| <b>Mechanical properties</b>                 |              |                   |            |
| Tensile Stress at Yield (50 mm/min)          | ISO 527-1,-2 | MPa               | 85         |
| Tensile Strain at Yield (50 mm/min)          | ISO 527-1,-2 | %                 | 3          |
| Tensile Modulus                              | ISO 527-1,-2 | MPa               | 6500       |
| Notched Impact Strength Charpy 23°C          | ISO 179/1eA  | kJ/m <sup>2</sup> | 9          |
| Notched Impact Strength Charpy -20°C         | ISO 179/1eA  | kJ/m <sup>2</sup> | 6          |
| Flexural Modulus (2 mm/min)                  | ISO 178      | MPa               | 6200       |
| <b>Thermal properties</b>                    |              |                   |            |
| Heat Deflection Temperature 0,45 MPa (HDT/B) | ISO 75-1,-2  | °C                | 157        |
| Heat Deflection Temperature 1,80MPa (HDT/A)  | ISO 75-1,-2  | °C                | 140        |
| <b>Flammability</b>                          |              |                   |            |
| Burning Behaviour (d=3,2 mm)                 | UL-94        | Class             | HB         |

Data contain above represent typical values of individual properties. They are informative, please do not construe as specifications.

MFR is measured at 230°C under a load of 2.16 kg with standard nozzle having a diameter of 2.095 mm.

Average mechanical property values of several measurements carried out on standard injection moulded specimens (ISO 3167) conditioned at room temperature (ISO 291).

### Physical form and storage

Standard packaging includes the 25 kg bags, the 1000 kg octabin (octagonal container) or the 1250 kg big-bag. All containers are tightly sealed and should be opened only immediately prior to processing.

INNOPOL® CS 1-3830 should generally have a moisture content of less than 0.07 % when being processed. In order to ensure reliable production pre-drying is suggested before processing of material at 80°C/2h.

INNOPOL® CS 1-3830 should be stored in dry conditions at temperatures below 60 °C and protected from UV-light. The quality of product may suffer due to storage under improper condition.

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### Recommended processing parameters

INNOPOL® CS 1-3830 is easy to be processed with standard injection moulding machines.

The following parameters should be used as guidelines:

|                          |                                          |
|--------------------------|------------------------------------------|
| Barrel temperatures      | 190 – 230°C                              |
| Polymer melt temperature | 210 – 250°C                              |
| Mould temperature        | 10 – 50°C                                |
| Injection speed          | intermediate, depend on the mould design |
| Hold pressure            | 50 – 100 % of injection pressure         |

### Product safety

For detailed safety information, see Safety Data Sheet, which is available on request.

### Note

All information provided herein is based on our best knowledge, experience and laboratory test results. However, Inno-Comp Kft. shall be in no even responsible or liable for misunderstood data or for inefficient application.

In order to check the availability of products, please, contact us:

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