

Product Information (Preliminary)

Product description

INNOPOL® CS 1-4610 FR is a flame retarded polypropylene homopolymer compound. This grade is available in nature and custom coloured form.

Recommended application

INNOPOL® CS 1-4610 FR is recommended to produce injection moulded parts for electrical industry where the required properties are good flame retardancy (acc. to UL-94 is V-2) and stiffness.

| Physical properties/Typical values | Test method | Unit | Mean value |
|--|--------------|-------------------|------------|
| Properties | | | |
| Abbreviated term | ISO 1043 | - | PPH FR |
| Colour | - | - | nature |
| Density 23°C | ISO 1183 | g/cm ³ | 0.92 |
| Rheology | | | |
| Melt Mass Flow Rate MFR (230°C/2,16kg) | ISO 1133 | g/10 min | 6 |
| Mechanical properties | | | |
| Tensile Stress at Yield (50 mm/min) | ISO 527-1,-2 | MPa | 34 |
| Tensile Strain at Yield (50 mm/min) | ISO 527-1,-2 | % | 9 |
| Tensile Modulus (2mm/min) | ISO 527-1,-2 | MPa | 1500 |
| Notched Impact Strength Charpy 23°C | ISO 179/1eA | kJ/m ² | 4,5 |
| Notched Impact Strength Charpy -20°C | ISO 179/1eA | kJ/m ² | 1,5 |
| Flexural Modulus (2mm/min) | ISO 178 | MPa | 1500 |
| Thermal properties | | | |
| Heat Deflection Temperature 0,45 MPa (HDT/B) | ISO 75-1,-2 | °C | 96 |
| Heat Deflection Temperature 1,8 MPa(HDT/A) | ISO 75-1,-2 | °C | 48 |
| Flammability | | | |
| Burning Behaviour (d=1,6 mm) | UL-94 | Class | V-2 |

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 1-4610 FR 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 1-4610 FR 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 1-4610 FR is easy to be processed with standard injection moulding machines.

The following parameters should be used as guidelines:

| | |
|--------------------------|--|
| Barrel temperatures | 190 – 240°C |
| Polymer melt temperature | 210 – 250°C |
| Mould temperature | 10 – 50°C |
| Injection speed | intermediate, depend on the mould design |
| Hold pressure | 30 – 100 % of actual 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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