

Product Information

Product description

INNOPOL® CS 1-3810 is a 10 % glass fiber reinforced polypropylene homopolymer compound. This grade is available in nature, black and custom coloured form.

Recommended application

INNOPOL® CS 1-3810 is recommended for producing injection molded products, where the required properties are high strength and stiffness.

Physical properties/Typical values	Test method	Unit	Mean value
Properties			
Abbreviated term	ISO 1043	-	PP-H GF10
Colour	-	-	Black
Density 23°C	ISO 1183	g/cm ³	0.97
Shrinkage	ISO 294-4	%	1,0± 0,2
Rheology			
Melt Mass Flow Rate MFR (230°C/2,16kg)	ISO 1133	g/10 min	5,5
Mechanical properties			
Tensile Modulus	ISO 527-1,-2	MPa	3050
Tensile Stress at Yield (50 mm/min)	ISO 527-1,-2	MPa	53
Tensile Strain at Yield (50 mm/min)	ISO 527-1,-2	%	3,6
Tensile Stress at Break (50 mm/min)	ISO 527-1,-2	MPa	51
Tensile strain at Break (50 mm/min)	ISO 527-1,-2	%	5,3
Flexural Modulus	ISO 178	MPa	2900
Flexural Strength	ISO 178	MPa	81
Notched Impact Strength Charpy 23°C	ISO 179/1eA	kJ/m ²	6,3
Notched Impact Strength Charpy -20°C	ISO 179/1eA	kJ/m ²	3,4
Thermal properties			
Heat Deflection Temperature 0,45 MPa(HDT/B)	ISO 75-1,-2	°C	151
Flammability			
Burning Behaviour (d=3,2 mm)	FMVSS	mm/min	<80

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 1-3810 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 1-3810 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 1-3810 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 – 240°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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