INNOPOL CS 1-6820 MA

Product Information

Product description

INNOPOL® CS 1-6820 MA is a 20 % glass fibre filled polypropylene homopolymer compound. This grade is available in nature and custom coloured form.

Recommended application

INNOPOL® CS 1-6820 MA is recommended for producing injection moulded products, where the required properties are high strength and stiffness besides good heat stability.

Physical properties / Typical values	Test method	Unit	Mean value
Properties			
Abbreviated term	ISO 1043	-	PP-H GF20
Colour	-	-	nature
Density 23°C	ISO 1183	g/cm^3	1.04
Rheology			
Melt Mass Flow Rate MFR (230°C/2,16kg)	ISO 1133	g/10 min	2,2
Mechanical properties			
Tensile Modulus (2 mm/min)	ISO 527-1,-2	MPa	4600
Tensile Stress at Yield (50 mm/min)	ISO 527-1,-2	MPa	72
Tensile strain at Break (50 mm/min)	ISO 527-1,-2	%	4
Flexural Modulus (2 mm/min)	ISO 178	MPa	4400
Flexural Strength (2 mm/min)	ISO 178	MPa	105
Notched Impact Strength Charpy 23°C	ISO 179/1eA	kJ/m^2	9
Notched Impact Strength Charpy -20°C	ISO 179/1eA	kJ/m^2	6,3
Notched Impact Strength Izod 23°C	ISO 180/1eA	kJ/m^2	10
Notched Impact Strength Izod -20°C	ISO 180/1eA	kJ/m^2	6,5
Thermal properties			
Heat Deflection Temperature 0,45 MPa (HDT/B)	ISO 75-1,-2	°C	155
Heat Deflection Temperature 1,80 MPa (HDT/A)	ISO 75-1,-2	°C	138
Vicat A Softening Point, A120	ISO 306	°C	160
Vicat B Softening Point, B120	ISO 306	°C	125
Flammability			
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).

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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 1-6820 MA 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 1-6820 MA 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.

Recommended processing parameters

INNOPOL® CS 1-6820 MA is easy to be processed with standard injection moulding machines.

The following parameters should be used as guidelines:

Barrel temperatures	190 – 240ºC
Polymer melt temperature	210 – 250ºC
Mould temperature	10 – 50ºC
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 Ltd. 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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