INNOPOL CS 1-6830 HS N

Product Information (Preliminary)

Product description

INNOPOL® CS 1-6830 HS N is a 30% glass fiber filled polypropylene homopolymer compound. This grade is available in nature and custom coloured form.

Recommended application

INNOPOL® CS 1-6830 HS N is recommended for producing injection molded products, where the required properties are excellent strength and stiffness. INNOPOL® CS 1-6830 HS N is a long term thermal stabilised product.

Physical properties/Typical values	Test method	Unit	Mean value
Properties			
Abbreviated term	ISO 1043	-	PP-H GF30
Colour	-	-	nature (N)
Density 23 C	ISO 1183	g/cm^3	1.13
Rheology			
Melt Mass Flow Rate MFR (230°C/2,16kg)	ISO 1133	g/10 min	2
Melt Mass Flow Rate MFR (230°C/5 kg)	ISO 1133	g/10 min	8,2
Melt Volume Flow Rate MVR (230°C/2,16kg)	ISO 1133	cm^3/10 min	2,2
Melt Volume Flow Rate MVR (230°C/5 kg)	ISO 1133	cm^3/10 min	8,5
Mechanical properties			
Tensile Stress at Yield (50 mm/min)	ISO 527-1,-2	MPa	96
Tensile Strain at break (50 mm/min)	ISO 527-1,-2	%	5
Tensile Modulus (1 mm/min)	ISO 527-1,-2	MPa	6500
Flexural Strength (2 mm/min)	ISO 178	MPa	135
Flexural Modulus (2 mm/min)	ISO 178	MPa	6800
Notched Impact Strength Izod at 23°C (A)	ISO 180	kJ/m^2	14
Notched Impact Strength Izod at -20°C (A)	ISO 180	kJ/m^2	11
Unnotched Impact Strength Izod at 23°C (U)	ISO 180	kJ/m^2	55
Unnotched Impact Strength Izod at -20°C (U)	ISO 180	kJ/m^2	54
Notched Impact Strength Charpy at 23°C (1eA)	ISO 179	kJ/m^2	13
Notched Impact Strength Charpy at -20°C (1eA)	ISO 179	kJ/m^2	10
Unnotched Impact Strength Charpy at 23°C (1eU)	ISO 179	kJ/m^2	62
Thermal properties			
Heat Deflection Temperature 0,45 MPa (HDT/B)	ISO 75-1,-2	°C	160
Heat Deflection Temperature 1,80 MPa (HDT/A)	ISO 75-1,-2	°C	145
Vicat A Softening Point, A120	ISO 306	°C	163
Vicat B Softening Point, B120	ISO 306	°C	136

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 1-6830 HS N 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 1-6830 HS N 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 1-6830 HS N 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	30 – 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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