

Product Information (Preliminary)

Product description

INNOPOL® CS 1-6630 CON FR is a halogenated flame retarded compound based on polypropylene homopolymer. This grade is available in natural and custom coloured form.

Recommended application

INNOPOL® CS 1-6630 CON FR is developed for extrusion of pipes, sheets and profiles, where one of the required properties is an excellent flame retardancy (class: V-0 acc. to UL-94) and good surface resistivity.

Physical properties/Typical values	Test method	Unit	Mean value
Properties			
Abbreviated term	ISO 1043	-	PPH FR
Colour	-	-	natural
Density 23°C	ISO 1183	g/cm ³	1,14
Rheology			
Melt Mass Flow Rate MFR (230°C/2,16kg)	ISO 1133	g/10 min	2
Mechanical properties			
Tensile Modulus (1 mm/min)	ISO 527-1,-2	MPa	2600
Tensile Stress at Yield (50 mm/min)	ISO 527-1,-2	MPa	28
Tensile Strain at Yield (50 mm/min)	ISO 527-1,-2	%	4
Unnotched Impact Strength Charpy 23°C	ISO 179/1eU	kJ/m ²	25
Notched Impact Strength Charpy 23°C	ISO 179/1eA	kJ/m ²	3
Notched Impact Strength Charpy -20°C	ISO 179/1eA	kJ/m ²	2
Flexural Modulus (2 mm/min)	ISO 178	MPa	2550
Thermal properties			
Heat Deflection Temperature 0,45 MPa (HDT/B)	ISO 75-1,-2	°C	103
Heat Deflection Temperature 1,8 MPa (HDT/B)	ISO 75-1,-2	°C	60
Flammability			
Burning Behaviour (d=3.2 mm)	UL-94	Class	V-0
Burning Behaviour (d=1.6 mm)	UL-94	Class	V-0
GWIT (Glow Wire Ignition Temperature)	IEC 60695-2-13	°C	830

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 1-6630 CON 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 1-6630 CON 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 1-6630 CON FR can be processed with standard extrusion lines.

The following parameters should be used as guidelines:

Barrel temperatures	180 – 230°C
Polymer melt temperature	200 – max. 240°C
Die temperature	190 – 230°C

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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