INNOPOL CS 1-6140

Product Information

Product description

INNOPOL® CS 1-6140 is a 40% talc-filled polypropylene homopolymer compound. This grade is available in nature and custom coloured form.

Recommended application

INNOPOL® CS 1-6140 is developed for producing injection moulded components for household equipments. INNOPOL® CS 1-6140 is high heat and wash-liquor stabilised.

Physical properties/Typical values	Test method	Unit	Mean value
Properties			
Abbreviated term	ISO 1043	-	PPH TD40
Colour	-	-	nature
Density 23°C	ISO 1183	g/cm^3	1.22
Ash Content at 600°C	ISO 3451-1/A	%	39
Rheology			
Melt Mass Flow Rate MFR (230°C/2,16kg)	ISO 1133	g/10 min	2
Melt Volume Flow Rate MVR (230°C/2,16kg)	ISO 1133	cm^3/10 min	2,2
Mechanical properties			
Tensile Modulus (1 mm/min)	ISO 527-1,-2	MPa	4100
Tensile Stress at Yield (50 mm/min)	ISO 527-1,-2	MPa	35
Tensile Strain at Yield (50 mm/min)	ISO 527-1,-2	%	3.2
Notched Impact Strength Izod 23°C	ISO 179/1eA	kJ/m^2	3.5
Notched Impact Strength Izod -20°C	ISO 179/1eA	kJ/m^2	2.2
Flexural Modulus (2 mm/min)	ISO 178	MPa	4200
Thermal properties			
Vicat Softening Point, A120	ISO 306	°C	157
Vicat Softening Point, B120	ISO 306	°C	95
Heat Deflection Temperature 1,8 MPa (HDT/A)	ISO 75-1,-2	°C	81
Heat Deflection Temperature 0,45 MPa (HDT/B)	ISO 75-1,-2	°C	139

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 1-6140 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 1-6140 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 1-6140 can be extruded with standard extrusion lines.
The following temperatures should be used as guidelines:

Barrel temperatures	180 – 220°C
Polymer melt temperature	200 – 230°C
Die temperature	190 – 220°C

For injection moulding the following parameters should be used as guidelines:

Barrel temperatures	190 – 250°C
Polymer melt temperature	230 – 260°C
Mould temperature	10 – 50°C
Injection speed	intermediate or slow, depend on the mould design
Hold pressure	50 – 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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