

INNOPOL CS 2 - 9000 BU/2



Product Information

Product description

INNOPOL[®] CS 2-9000 BU/2 is a polypropylene block-copolymer based compound. This grade is available in black and custom coloured form.

Recommended application

INNOPOL[®] CS 2-9000 BU/2 is developed for producing injection moulded automotive components.

Physical properties:

Typical values	Test method	Unit	Mean value
Properties			
Abbreviated term	ISO 1043	-	PP - B
Colour	-	-	Black (5PK)
Density 23°C	ISO 1183	g/cm ³	0.9
Shrinkage - parallel	ISO 294	%	1.3
Shrinkage - normal	ISO 294	%	1.1
Rheology			
Melt Mass Flow Rate MFR (230°C/2,16kg)	ISO 1133	g/10 min	40
Mechanical properties			
Tensile Modulus (1 mm/min)	ISO 527-1,-2	MPa	1200
Tensile Stress at Yield (50 mm/min)	ISO 527-1,-2	MPa	26
Tensile Strain at Yield (50 mm/min)	ISO 527-1,-2	%	8
Notched Impact Strength Charpy 23°C	ISO 179/1eA	kJ/m ²	8
Notched Impact Strength Charpy -30°C	ISO 179/1eA	kJ/m ²	4
Thermal properties			
Heat Deflection Temperature 1,8 MPa (HDT/A)	ISO 75-1,-2	°C	52
Heat Deflection Temperature 0,45 MPa (HDT/B)	ISO 75-1,-2	°C	105
Flammability			
Automotive materials (thickness d ≥ 1 mm)	FMVSS 302	-	+
Burning Behaviour (UL 94; 1,6mm)	FMVSS 302	Class	HB

- 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).
- Data contained above represent typical values of individual properties. They are informative, please do not construe as specifications.

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 2-9000 BU/2 should generally have a moisture content of less than 0.05 % when being processed. In order to ensure reliable production pre-drying is suggested before processing of material at 80°C/2h.

INNOPOL[®] CS 2-9000 BU/2 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 2-9000 BU/2 is easy to process 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, depending on the mould design
Hold pressure	30 – 100 % of actual injection pressure

Product safety

INNOPOL[®] CS 2-9000 BU/2 is not classified as a dangerous product.

Dust from the product may give a risk for dust explosion. Inhalation of dust should be avoided. During processing of the product small amounts of fumes are generated, which require proper ventilation.

For further 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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