

## Product Information (Preliminary)

### Product description

INNOPOL® CS 2-3120 MO is a 20% talcum filled compound based on polypropylene block-copolymer. This grade is available in nature and custom coloured form.

### Recommended application

INNOPOL® CS 2-3120 MO is developed for producing injection moulded automotive components, where the required properties are high stiffness and good impact strength besides long term heat stability.

Physical properties /Typical values	Test method	Unit	Mean value
<b>Properties</b>			
Abbreviated term	ISO 1043	-	PP/PE TD20
Colour	-	-	black
Density 23°C	ISO 1183	g/cm <sup>3</sup>	1,04
<b>Rheology</b>			
Melt Volume Flow Rate MVR (230°C/2,16kg)	ISO 1133	ml/10 min	15
<b>Mechanical properties</b>			
Tensile Modulus (1 mm/min)	ISO 527-1,-2	MPa	1600
Tensile Stress at Yield (50 mm/min)	ISO 527-1,-2	MPa	19
Tensile Strain at Yield (50 mm/min)	ISO 527-1,-2	%	3,4
Nominal Tensile Strain at Break	ISO 527-1,-2	%	22
Impact Strength Charpy 23°C	ISO 179/1eU	kJ/m <sup>2</sup>	109
Impact Strength Charpy -30°C	ISO 179/1eU	kJ/m <sup>2</sup>	47
Notched Impact Strength Charpy 23°C	ISO 179/1eA	kJ/m <sup>2</sup>	5,5
Notched Impact Strength Charpy -30°C	ISO 179/1eA	kJ/m <sup>2</sup>	3,0
Flexural Modulus (2 mm/min)	ISO 178	MPa	1600
<b>Thermal properties</b>			
Heat Deflection Temperature 1.8 MPa (HDT/A)	ISO 75-1,-2	°C	51
Heat Deflection Temperature 0.45 MPa (HDT/B)	ISO 75-1,-2	°C	91
<b>Flammability</b>			
Automotive materials (thickness d ≥ 1 mm)	FMVSS 302	-	+

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 2-3120 MO 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 2-3120 MO 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 2-3120 MO is easy to process with standard injection moulding machines.

The following parameters should be used as guidelines:

Barrel temperatures	190 – 240°C
Polymer melt temperature	210 – 250°C
Mould temperature	20 – 50°C
Injection speed	intermediate, depend on the mould design
Hold pressure time	as low as possible - to avoid sink marks

### 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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