

## Product Information (Preliminary)

### Product description

INNOPOL<sup>®</sup> CS 2-4810 is a 10% glass fiber reinforced and chemically coupled polypropylene block copolymer compound. This grade is available in nature and custom coloured form.

### Recommended application

INNOPOL<sup>®</sup> CS 2-4810 is recommended for producing injection molded products, where the required properties are the good stiffness and impact resistance, as well.

Physical properties/Typical values	Test method	Unit	Mean value
<b>Properties</b>			
Abbreviated term	ISO 1043	-	PP/PE GF10
Colour	-	-	nature
Density 23°C	ISO 1183	g/cm <sup>3</sup>	0.97
<b>Rheology</b>			
Melt Mass Flow Rate MFR (230°C/2,16kg)	ISO 1133	g/10 min	7
<b>Mechanical properties</b>			
Tensile Modulus (50 mm/min)	ISO 527-1,-2	MPa	2800
Tensile Stress at Yield (50 mm/min)	ISO 527-1,-2	MPa	55
Tensile Strain at Yield (50 mm/min)	ISO 527-1,-2	%	3,5
Flexural Modulus (2 mm/min)	ISO 178	MPa	2900
Notched Impact Strength Charpy 23°C	ISO 179/1eA	kJ/m <sup>2</sup>	9
Notched Impact Strength Charpy -20°C	ISO 179/1eA	kJ/m <sup>2</sup>	4
<b>Thermal properties</b>			
Heat Deflection Temperature 0,45 MPa(HDT/B)	ISO 75-1,-2	°C	140

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 contain 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<sup>®</sup> CS 2-4810 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<sup>®</sup> CS 2-4810 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.

## Product Information (Preliminary)

### Recommended processing parameters:

INNOPOL<sup>®</sup> CS 2-4810 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 – 240°C
Mould temperature	10 – 50°C
Injection speed	intermediate, depend on the mould design
Hold pressure	50 – 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:

### INNO-COMP LTD.

H-3581 Tiszaújváros, P.O. Box: 118

Telephone: +36-49-542-084

Fax: +36-49-522-509

E-mail: [innocomp@innocomp.hu](mailto:innocomp@innocomp.hu)