

Product Information (Preliminary)

Product description

INNOPOL® CS 2-8660 FR is a flame retarded, elastomer modified polypropylene block-copolymer compound. This grade is available in nature and custom coloured form.

Recommended application

INNOPOL® CS 2-8660 FR is recommended for extrusion of pipes, profiles and sheets, where the required properties are the excellent flame retardance (halogen-free) and the balanced physical properties.

Physical properties/Typical values	Test method	Unit	Mean value
Properties			
Abbreviated term	ISO 1043	-	PP-B FR
Colour	-	-	nature
Density 23 °C	ISO 1183	g/cm ³	1,42
Rheology			
Melt Volume Flow Rate MVR (230 °C/2,16kg)	ISO 1133	ccm/10 min	0,5
Mechanical properties			
Tensile Modulus (2mm/min)	ISO 527-1,-2	MPa	1700
Tensile Stress at Yield (50 mm/min)	ISO 527-1,-2	MPa	13,5
Tensile Strain at Yield (50 mm/min)	ISO 527-1,-2	%	2,2
Tensile Stress at Break (50 mm/min)	ISO 527-1,-2	MPa	11,5
Tensile Strain at Break (50 mm/min)	ISO 527-1,-2	%	70
Flexural Modulus (2mm/min)	ISO 178	MPa	1800
Flexural Strength (2mm/min)	ISO 178	MPa	22
Notched Impact Strength Charpy 23 °C	ISO 179/1eA	kJ/m ²	45
Notched Impact Strength Charpy -20 °C	ISO 179/1eA	kJ/m ²	4,5
Unnotched Impact Strength Charpy 23 °C	ISO 179/1eU	kJ/m ²	N.B.
Unnotched Impact Strength Charpy -20 °C	ISO 179/1eU	kJ/m ²	22
Flexural Modulus (2mm/min)	ISO 178	MPa	1900
Thermal properties			
Heat Deflection Temperature (0,45 MPa)	ISO 75-1,-2	°C	110
Flammability			
Burning Behaviour (3,2mm)	UL-94	Class	V0

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).

Product Information (Preliminary)

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 2-8660 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 2-8660 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.

Recommended processing parameters

INNOPOL[®] CS 2-8660 FR can be extruded with standard extrusion lines.

The following temperatures should be used as guidelines:

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

INNO-COMP KFT.

H-3580 Tiszaújváros, Vegyészek útja 8.

Telephone: +36-49-542-084

Fax: +36-49-522-509

E-mail: innocomp@innocomp.hu