# **INNOPOL® PP CS 1-7830 HGF**

## **Technical Data**

## Product Description

INNOPOL ® CS 1-7830 HGF is a 30 % glass-fibre-filled polypropylene homopolymer compound. This grade is available in nature and custom coloured form.

#### Recommended application

INNOPOL ® CS 1-7830 HGF is recommended to be used for applications where the required properties are high strength and stiffness besides long term heat stability.

#### General

Material Status	<ul> <li>Commercial: Active</li> </ul>		
Literature <sup>1</sup>	<ul> <li>Technical Datasheet (English)</li> </ul>		
Search for UL Yellow Card	<ul><li>Inno-Comp Ltd.</li><li>INNOPOL® PP</li></ul>		
Availability	Europe		
Filler / Reinforcement	Glass Fiber, 30% Filler by Weight		
Features	<ul><li>Good Thermal Stability</li><li>High Stiffness</li></ul>	<ul><li>High Strength</li><li>Homopolymer</li></ul>	
Appearance	Black	Colors Available	<ul> <li>Natural Color</li> </ul>
Forms	Pellets		
Processing Method	<ul> <li>Injection Molding</li> </ul>		
Resin ID (ISO 1043)	• PP-H GF30		

Physical	Nominal Value Unit	Test Method
Density (23°C)	1.13 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/5.0 kg)	6.0 g/10 min	ISO 1133
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus (Injection Molded)	6500 MPa	ISO 527-2/2
Tensile Stress		ISO 527-2/50
Yield, Injection Molded	90.0 MPa	
Break, Injection Molded	87.0 MPa	
Tensile Strain		ISO 527-2/50
Yield, Injection Molded	2.8 %	
Break, Injection Molded	4.5 %	
Flexural Modulus <sup>3</sup> (Injection Molded)	6000 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C, Injection Molded	7.0 kJ/m <sup>2</sup>	
23°C, Injection Molded	10 kJ/m²	
Charpy Unnotched Impact Strength		ISO 179/1eU
-30°C, Injection Molded	50 kJ/m²	
23°C, Injection Molded	53 kJ/m²	
Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Unannealed	157 °C	ISO 75-2/B
1.8 MPa, Unannealed	140 °C	ISO 75-2/A
Vicat Softening Temperature		
	163 °C	ISO 306/A120
	134 °C	ISO 306/B120
Injection	Nominal Value LInit	

Injection	Nominal Value Unit
Drying Temperature	80 °C
Drying Time	2.0 hr

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Polypropylene Homopolymer Inno-Comp Ltd.

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Injection	Nominal Value Unit
Suggested Max Moisture	0.070 %
Rear Temperature	190 to 240 °C
Middle Temperature	190 to 240 °C
Front Temperature	190 to 240 °C
Processing (Melt) Temp	230 to 260 °C
Mold Temperature	15 to 50 °C
Injection Rate	Moderate
Injection Notes	

Hold Pressure: 50-100% of injection pressure

#### Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

<sup>3</sup> 2.0 mm/min



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## **INNOPOL® PP CS 1-7830 HGF**

Polypropylene Homopolymer Inno-Comp Ltd.

### Where to Buy

#### Supplier

Inno-Comp Ltd. , Hungary Telephone: +36-49-542-084 Web: http://www.inno-comp.hu/

#### Distributor

GAZECHIM PLASTIQUES

GAZECHIM PLASTIQUES is a Pan European distribution company. Contact GAZECHIM PLASTIQUES for availability of individual products by country. Telephone: +33-4-67-49-55-37

Web: http://www.gazechim.com/

Availability: Denmark, Finland, Norway, Sweden



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