INNOPOL® PP CS 1-7830 HGF

Polypropylene Homopolymer

Inno-Comp Ltd.

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

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.13	g/cm³	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 [3] (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/m²	
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	Unit
Drying Temperature	80	°C
Drying Time	2.0	hr

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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

[1] 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.

[2] Typical properties: these are not to be construed as specifications.

[3] 2.0 mm/min

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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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