

INNOPOL® PP CS 1-3820

Polypropylene Homopolymer

Inno-Comp Ltd.

Message:

INNOPOL® CS 1-3820 is a 20 % glass-fibre-filled polypropylene homopolymer compound. This grade is available in nature and custom coloured form. INNOPOL® CS 1-3820 is recommended for producing injection moulded products, where the required properties are high strength and stiffness.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	Rigidity, high		
	High strength		
	Homopolymer		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PP-H GF20		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ISO 1133
Molding Shrinkage	0.60 - 1.4	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3600	MPa	ISO 527-2
Tensile Stress (Yield)	50.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	3.2	%	ISO 527-2/50
Flexural Modulus ¹	3500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	3.3	kJ/m ²	ISO 179/1eA
23°C	4.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	150	°C	ISO 75-2/B
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		FMVSS 302
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	

Suggested Max Moisture	0.070	%
Rear Temperature	190 - 240	°C
Middle Temperature	190 - 240	°C
Front Temperature	190 - 240	°C
Processing (Melt) Temp	210 - 250	°C
Mold Temperature	10.0 - 50.0	°C
Injection Rate	Moderate	

Injection instructions

Hold pressure: 50 to 100 % of actual injection pressure

NOTE

1. 2.0 mm/min

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Recommended distributors for this material

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