

INNOPOL® PP CS 1-5820 SA

Polypropylene Homopolymer

Inno-Comp Ltd.

Message:

INNOPOL® CS 1-5820 SA is a 20 % glass-fibre filled polypropylene homopolymer compound. This grade is available in nature and custom coloured form.

Recommended application

INNOPOL® CS 1-5820 SA 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)	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4500	MPa	ISO 527-2/2
Tensile Stress (Yield)	70.0	MPa	ISO 527-2/50
Tensile Strain (Break)	4.0	%	ISO 527-2/50
Flexural Modulus ¹	4400	MPa	ISO 178
Flexural Stress ²	105	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	6.0	kJ/m ²	ISO 179/1eA
23°C	9.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	155	°C	ISO 75-2/B
1.8 MPa, not annealed	138	°C	ISO 75-2/A
Vicat Softening Temperature			
--	160	°C	ISO 306/A
--	125	°C	ISO 306/B

Flammability	Nominal Value	Test Method
Flame Rating (1.60 mm)	HB	FMVSS 302
flammability-Automotive materials (thickness d > 1 mm)	+	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 - 100 % of injection pressure		
NOTE		
1.	2.0 mm/min	
2.	2.0 mm/min	

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Recommended distributors for this material

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