

INNOPOL® PP CS 1-2120 AP

Polypropylene Homopolymer

Inno-Comp Ltd.

Message:

INNOPOL CS 1-2120 AP is a 20 % talc filled compound based on polypropylene homopolymer. This grade is available in nature and custom coloured form.

Recommended application

INNOPOL ® CS 1-2120 AP is recommended especially for producing products, where high strength, low warpage, long term heat stability and excellent processability are required.

General Information			
Filler / Reinforcement	Talc filler, 20% filler by weight		
Features	Low warpage		
	High strength		
	Homopolymer		
	Workability, good		
	Thermal stability, good		
Appearance	Available colors		
	Natural color		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PP-H TD20		
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)	18	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2600	MPa	ISO 527-2/1
Tensile Stress (Yield)	34.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	5.0	%	ISO 527-2/50
Flexural Modulus ¹	2700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
0°C	1.6	kJ/m ²	ISO 179/1eA
23°C	2.6	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
0°C	20	kJ/m ²	ISO 179/1eU
23°C	35	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	125	°C	ISO 75-2/B
Vicat Softening Temperature			

--	153	°C	ISO 306/A120
--	96.0	°C	ISO 306/B120
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	15.0 - 50.0	°C	
Injection Rate	Moderate		
Injection instructions			
Hold Pressure: 30 to 100% of injection pressure			
NOTE			
1.	2.0 mm/min		

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