

INNOPOL® PP CS 1-7120

Polypropylene Homopolymer

Inno-Comp Ltd.

Message:

INNOPOL ® CS 1-7120 is a 20 % talc-filled polypropylene homopolymer compound. This grade is available in nature and custom coloured form.

Recommended application

INNOPOL ® CS 1-7120 is recommended for extrusion of sheets and profiles, where one of the required properties is good stiffness.

General Information			
Filler / Reinforcement	Talc filler, 20% filler by weight		
Features	Rigid, good		
	Homopolymer		
Uses	Sheet		
	Profile		
Appearance	Available colors		
	Natural color		
Processing Method	Sheet extrusion molding		
	Profile extrusion molding		
	Injection molding		
Resin ID (ISO 1043)	PP-H TD20		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/5.0 kg)	0.80	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2500	MPa	ISO 527-2/1
Tensile Stress (Yield)	32.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	5.5	%	ISO 527-2/50
Flexural Modulus ¹	2600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	2.0	kJ/m ²	ISO 179/1eA
23°C	3.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	18	kJ/m ²	ISO 179/1eU
23°C	60	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (0.45 MPa, Unannealed)	115	°C	ISO 75-2/B
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Suggested Max Moisture	0.070	%	
Rear Temperature	190 - 260	°C	
Middle Temperature	190 - 260	°C	
Front Temperature	190 - 260	°C	
Processing (Melt) Temp	240 - 260	°C	
Mold Temperature	15.0 - 50.0	°C	
Injection Rate	Moderate		
Injection instructions			
Hold Pressure: 50 to 100% of injection pressure			
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Suggested Max Moisture	0.070	%	
Cylinder Zone 1 Temp.	180 - 220	°C	
Cylinder Zone 2 Temp.	180 - 220	°C	
Cylinder Zone 3 Temp.	180 - 220	°C	
Cylinder Zone 4 Temp.	180 - 220	°C	
Cylinder Zone 5 Temp.	180 - 220	°C	
Melt Temperature	200 - 230	°C	
Die Temperature	190 - 220	°C	
NOTE			
1.	2.0 mm/min		

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