

INNOPOL® PP CS 1-3130 MA

Polypropylene Homopolymer

Inno-Comp Ltd.

Message:

INNOPOL CS 1-3130 MA is a 30 % talcum filled compound based on polypropylene homopolymer. This grade is available in nature and custom coloured form.

Recommended application

INNOPOL® CS 1-3130 MA is recommended especially for producing products, where high stiffness, low shrinkage and long term heat stability required.

General Information			
Filler / Reinforcement	Talc filler, 30% filler by weight		
Features	Rigidity, high		
	Homopolymer		
	Thermal stability, good		
	Low shrinkage		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PP-H TD30		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.13	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3500	MPa	ISO 527-2/1
Tensile Stress (Yield)	32.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	3.6	%	ISO 527-2/50
Flexural Modulus ¹	3600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	2.1	kJ/m ²	ISO 179/1eA
23°C	2.8	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	14	kJ/m ²	ISO 179/1eU
23°C	27	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	123	°C	ISO 75-2/B

1.8 MPa, not annealed	67.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	153	°C	ISO 306/A120
--	92.0	°C	ISO 306/B120
Melting Temperature	164	°C	ISO 11357-3
Flammability	Nominal Value		Test Method
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 - 250	°C	
Middle Temperature	190 - 250	°C	
Front Temperature	190 - 250	°C	
Processing (Melt) Temp	210 - 260	°C	
Mold Temperature	20.0 - 50.0	°C	
Injection Rate	Moderate		
Injection instructions			
Hold pressure: 30-100% of injection pressure			
NOTE			
1.	2.0 mm/min		

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