

INNOPOL® PP CS 1-3140 MA

Polypropylene Homopolymer

Inno-Comp Ltd.

Message:

INNOPOL ® CS 1-3140 MA is a 40 % talc-filled polypropylene homopolymer compound. This grade is available in nature and custom coloured form.

Recommended application

INNOPOL ® CS 1-3140 MA is recommended especially for producing products, where high stiffness, long term heat stability and excellent processability are required.

General Information			
Filler / Reinforcement	Talc filler, 40% filler by weight		
Features	Rigidity, high		
	Homopolymer		
	Workability, good		
	Thermal stability, good		
Appearance	Available colors		
	Natural color		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PP-H TD40		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.22	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3900	MPa	ISO 527-2/1
Tensile Stress (Yield)	31.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	3.5	%	ISO 527-2/50
Flexural Modulus ¹	4000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	1.5	kJ/m ²	ISO 179/1eA
23°C	2.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	9.0	kJ/m ²	ISO 179/1eU
23°C	20	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	133	°C	ISO 75-2/B
Vicat Softening Temperature			
--	153	°C	ISO 306/A120

--	90.0	°C	ISO 306/B120
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 - 250	°C	
Middle Temperature	190 - 250	°C	
Front Temperature	190 - 250	°C	
Processing (Melt) Temp	230 - 260	°C	
Mold Temperature	10.0 - 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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