

INNOPOL® PP CS 2-2000 TO

Polypropylene Copolymer

Inno-Comp Ltd.

Message:

INNOPOL® CS 2-2000 TO is a polypropylene block-copolymer based compound. This grade is available in nature and custom coloured form.

Recommended application

INNOPOL® CS 2-2000 TO is developed for producing injection moulded automotive components, where the required properties are good stiffness and processability besides excellent low-temperature impact resistance.

General Information			
Features	Block Copolymer		
	Rigid, good		
	Workability, good		
	Low temperature impact resistance		
Uses	Application in Automobile Field		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PP - B		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	900	MPa	ISO 527-2/1
Tensile Stress (Yield)	21.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	9.0	%	ISO 527-2/50
Flexural Modulus ¹	950	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	8.0	kJ/m ²	ISO 179/1eA
23°C	40	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	No Break		ISO 179/1eU
23°C	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	89.0	°C	ISO 75-2/B

1.8 MPa, not annealed	50.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	135	°C	ISO 306/A120
--	56.0	°C	ISO 306/B120
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	190 - 250	°C	
Middle Temperature	190 - 250	°C	
Front Temperature	190 - 250	°C	
Processing (Melt) Temp	210 - 260	°C	
Mold Temperature	10.0 - 50.0	°C	
Injection Rate	Moderate		
Injection instructions			
Hold pressure: 30 to 100 % of actual injection pressure			
NOTE			
1.	2.0 mm/min		

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