

INNOPOL® PP CS 2-9000 MA

Polypropylene Copolymer

Inno-Comp Ltd.

Message:

INNOPOL® CS 2-9000 MA is a high melt flow copolymer with antistatic additivation. This grade is available in nature and custom coloured form.

Recommended application

INNOPOL® CS 2-9000 MA is developed for producing injection moulded automotive components.

General Information			
Additive	Antistatic property		
Features	Copolymer		
	Antistatic property		
	High liquidity		
Uses	Application in Automobile Field		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PP/PE		
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)	36	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	52.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	2.2	%	ISO 294-4
Flow direction	1.4	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1450	MPa	ISO 527-2/1
Tensile Stress (Yield)	27.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	4.5	%	ISO 527-2/50
Nominal Tensile Strain at Break	25	%	ISO 527-2
Flexural Modulus ¹	1550	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.5	kJ/m ²	ISO 179/1eA
23°C	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	108	°C	ISO 75-2/B
1.8 MPa, not annealed	57.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	148	°C	ISO 306/A120
--	79.0	°C	ISO 306/B120
Melting Temperature	163	°C	ISO 11357-3
Flammability	Nominal Value	Test Method	
Flame Rating (1.60 mm)	HB	FMVSS 302	
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	0.050	%	
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: 50 to 100 % of actual injection pressure			
NOTE			
1.	2.0 mm/min		

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