

INNOPOL® PP CS 1-3000 DEL

Polypropylene Homopolymer

Inno-Comp Ltd.

Message:

INNOPOL® CS 1-3000 DEL is a polypropylene homopolymer based compound. This grade is available in nature and custom coloured form as well.

Recommended application

INNOPOL® CS 1-3000 DEL is developed for producing injection moulded automotive products.

General Information			
Features	Homopolymer		
Uses	Application in Automobile Field		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PP-H		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.920	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	10.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	0.96	%	ISO 294-4
Flow direction	1.2	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1450	MPa	ISO 527-2/1
Tensile Stress (Yield)	36.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	8.0	%	ISO 527-2/50
Nominal Tensile Strain at Break	14	%	ISO 527-2
Flexural Modulus ¹	2600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	1.2	kJ/m ²	ISO 179/1eA
23°C	3.7	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	17	kJ/m ²	ISO 179/1eU
23°C	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, not annealed	101	°C	ISO 75-2/B
1.8 MPa, not annealed	54.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	153	°C	ISO 306/A120
--	94.0	°C	ISO 306/B120
Melting Temperature	162	°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 - 230	°C	
Middle Temperature	190 - 230	°C	
Front Temperature	190 - 230	°C	
Processing (Melt) Temp	210 - 240	°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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