

INNOPOL® PP CS 1-3120 DEL

Polypropylene Homopolymer

Inno-Comp Ltd.

Message:

INNOPOL CS 1-3120 DEL is a 20 % talcum filled compound based on polypropylene homopolymer. This grade is available in nature and custom coloured form.

Recommended application

INNOPOL® CS 1-3120 DEL is developed for producing injection moulded automotive components.

General Information			
Filler / Reinforcement	Talc filler, 20% filler by weight		
Features	Homopolymer		
	Fill		
Uses	Application in Automobile Field		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PP-H TD20		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	9.00	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	0.80	%	ISO 294-4
Flow direction	1.0	%	ISO 294-4
Ash Content (600°C)	19	%	ISO 3451-1
flammability-Automotive materials (thickness d > 1 mm)	+		FMVSS 302
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2460	MPa	ISO 527-2/1
Tensile Stress (Yield)	34.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	5.0	%	ISO 527-2/50
Nominal Tensile Strain at Break	23	%	ISO 527-2
Flexural Modulus ¹	2730	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	3.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	18	kJ/m ²	ISO 179/1eU
23°C	46	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	125	°C	ISO 75-2/B
1.8 MPa, not annealed	71.0	°C	ISO 75-2/A
Melting Temperature	162	°C	ISO 11357-3
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	210 - 260	°C	
Mold Temperature	20.0 - 50.0	°C	
Injection Rate	Moderate		
Injection instructions			
Hold pressure: as low as possible - to avoid sink marks			
NOTE			
1.	2.0 mm/min		

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Recommended distributors for this material

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