

INNOPOL® PP CS 1-4140 AP

Polypropylene Homopolymer

Inno-Comp Ltd.

Message:

INNOPOL® CS 1-4140 AP is a 40 % talc-filled, polypropylene homopolymer compound/PP-H TD40 (ISO 1043)/. This grade is available in nature and custom coloured form as well.

General Information			
Filler / Reinforcement	Talc filler, 40% filler by weight		
Features	Rigidity, high		
	Homopolymer		
	Thermal stability, good		
	Low shrinkage		
Appearance	Available colors		
	Natural color		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PP-H TD40		
Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	5.50	cm ³ /10min	ISO 1133
Ash Content (600°C)	39	%	ISO 3451-1A
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3500	MPa	ISO 527-2/1
Tensile Stress (Yield)	26.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	2.5	%	ISO 527-2/50
Nominal Tensile Strain at Break	8.0	%	ISO 527-2
Flexural Modulus ¹	3700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	1.7	kJ/m ²	ISO 179/1eA
23°C	4.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	13	kJ/m ²	ISO 179/1eU
23°C	30	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, not annealed	120	°C	ISO 75-2/B
1.8 MPa, not annealed	65.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	152	°C	ISO 306/A120
--	78.0	°C	ISO 306/B120
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
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: 50 to 100% of injection pressure			
NOTE			
1.	2.0 mm/min		

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