

INNOPOL® PP CS 1-4940 MC

Polypropylene Homopolymer

Inno-Comp Ltd.

Message:

INNOPOL® CS 1-4940 MC is a 40 % mica-filled polypropylene homopolymer compound /PP-H MC40 (ISO 1043)/. This grade is available in nature and custom coloured form as well.

Recommended application

INNOPOL® CS 1-4940 MC is recommended especially for producing products, where high stiffness, low shrinkage and long term heat stability are required.

General Information			
Filler / Reinforcement	Mica filler, 40% filler by weight		
Features	Rigidity, high		
	Homopolymer		
	Good heat aging resistance		
	Low shrinkage		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PP-H MC40		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.22	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.7	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	5.00	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4100	MPa	ISO 527-2/1
Tensile Stress (Yield)	34.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	2.4	%	ISO 527-2/50
Nominal Tensile Strain at Break	4.0	%	ISO 527-2
Flexural Modulus ¹	4300	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	1.5	kJ/m ²	ISO 179/1eA
23°C	2.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	13	kJ/m ²	ISO 179/1eU
23°C	23	kJ/m ²	ISO 179/1eU

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	131	°C	ISO 75-2/B
1.8 MPa, not annealed	77.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	156	°C	ISO 306/A120
--	103	°C	ISO 306/B120
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	230 - 260	°C	
Mold Temperature	10.0 - 50.0	°C	
Injection Rate	Slow-Moderate		
Injection instructions			
Hold pressure: 50 to 100 % of actual injection pressure			
NOTE			
1.	2.0 mm/min		

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