

## Technical Data Sheet

# P50CN-2099

Polypropylene Filled with Calcium Carbonate

## Nirumand Polymer



Nirumand Polymer Co.  
Filled & Reinforced Engineering Plastics

### Product Description

P50CN-2099 is polypropylene filled with 50% calcium carbonate offering good balance of toughness and stiffness, dimensional stability, appropriate dye adhesion, good thermal and chemical resistance. This compound is used in automotive applications especially wheel cover, and other utility products. This grade is designed to be processed in injection molding process.

### General Properties

Material Status • Commercial: Active

Forms • Pellets

Processing Method • Injection molding

Color • Natural

Physical Properties	Value	Unit	Test Method
Density	1.45	gr/cm <sup>3</sup>	ISO 1183
Melt Mass-flow Rate (MFR) (230°C/2.16 kg)	6	gr/10 min	ASTM D1238

Mechanical Properties	Value	Unit	Test Method
Tensile Strength@yield	≥ 13	MPa	ISO 527
Tensile Strength@Break	≥ 12	MPa	ISO 527
Elongation@Break	4	%	ISO 527
Elastic Modulus	.....	MPa	ISO 527
Flexural Modulus	1700	MPa	ASTM D790

Impact	Value	Unit	Test Method
Notched Izod Impact (23°C)	4	kJ/m <sup>2</sup>	ISO 180
Notched charpy Impact (23°C)	.....	kJ/m <sup>2</sup>	ISO 179

Hardness	Value	Unit	Test Method
Durometer Hardness	70	Shore D	ASTM D2240

❖ Values shown are average & are not to be considered as product specifications.

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