

## Technical Data Sheet



### P50TN-C40

Polypropylene Filled with Talcum Powder

## Nirumand Polymer

Nirumand Polymer Co.  
Filled & Reinforced Engineering Plastics

#### Product Description

P50TN-C40 is polypropylene filled with 50% talcum powder offering better mechanical properties, toughness, dimensional stability, stiffness, good thermal and chemical resistance. This compound is used in appliance industry, automotive applications, electrical goods, housewares and other utility products. This grade is designed to be processed in conventional injection molding techniques.

#### General Properties

Material Status •Commercial: Active

Forms •Pellets

Processing Method •Injection molding

Color •Natural

| Physical Properties                       | Value | Unit               | Test Method |
|---|-------|--------------------|-------------|
| Density                                   | 1.5   | gr/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-flow Rate (MFR) (230°C/2.16 kg) | 6     | gr/10 min          | ASTM D1238  |
| Shrinkage                                 | 0.8   | %                  | ASTM D955   |

| Mechanical Properties  | Value | Unit | Test Method |
|------------------------|-------|------|-------------|
| Tensile Strength@yield | 13    | MPa  | ISO 527     |
| Tensile Strength@Break | 12    | MPa  | ISO 527     |
| Elongation@Break       | 10    | %    | ISO 527     |
| Elastic Modulus        | ....  | MPa  | ISO 527     |
| Flexural Modulus       | 1900  | MPa  | ASTM D790   |

| Impact                       | Value | Unit              | Test Method |
|------------------------------|-------|-------------------|-------------|
| Notched Izod Impact (23°C)   | 8     | 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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