HYOSUNG VINA CHEMICALS

TECHNICAL DATA SHEET

# Topilene® F501N

Polypropylene Homopolymer
For Fiber/Yarn Applications

## Product Description

***Topilene*® F501N** is a polypropylene homopolymer used for extrusion and thermoforming applications like monofilaments, ropes and tapes. It is formulated with a low water-carry-over additive package.

## Characteristics

**Typical Application** Raffia / Rope / Fishing net / Staple fiber / Flat yarns for woven bags

**Features** Low water carry over / Stretchability / Bisphenol free

## Typical Properties

| Characteristics | Method | Value | Unit |
|---|---|---|---|
| **Physical** | | | |
| Melt Index(230℃, 2.16kg) | ASTM D1238 | **3.7** | g/10min |
| Density | ASTM D792 | **0.90** | g/㎤ |
| **Mechanical** | | | |
| Tensile Strength at Yield | ASTM D638 | **370** | kg/㎠ |
| Flexural Modulus | ASTM D790 | **17,000** | kg/㎠ |
| Notched Izod Impact Strength(23℃) | ASTM D256 | **4.0** | kg·cm/cm |
| Rockwell Hardness | ASTM D785 | **105** | R-scale |
| **Thermal** | | | |
| Vicat Softening point (1kgf) | ASTM D1525 | **155** | ℃ |
| Heat Deflection Temperature (4.6kgf/㎠) | ASTM D648 | **110** | ℃ |

The values listed above are typical values for reference purpose only and shall not be construed as specifications.

## Contacts


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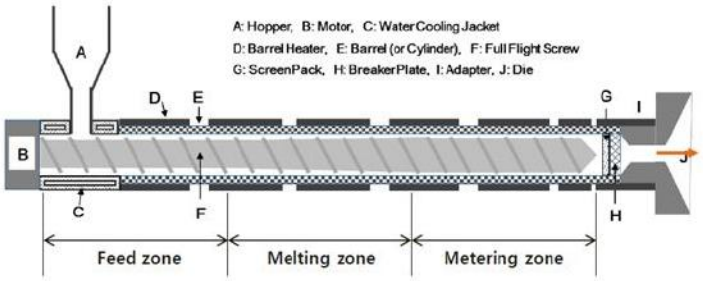
## Processing Conditions




| Specifications | Unit | Recommended Conditions |
|---|---|---|
| Nozzle Temperature | ℃ | 260 ~ 280 |
| Front Temperature | ℃ | 260 ~ 280 |
| Middle Temperature | ℃ | 260 ~ 280 |
| Rear Temperature | ℃ | 240 ~ 260 |
| Screw Speed | rpm | 40 ~ 70 |

**Considerations**

Due to variations in screw design and heat efficiency according to types of facilities, optimal conditions for each facility may differ. Therefore, the optimal temperature conditions for each facility must be taken into consideration depending on extruding pressure, cooling efficiency, changes in MI of the final product, appearances of the final product, etc.

## Health, Safety and Food Contact Regulations

***Topilene***® **F501N** complies with FDA requirements in the code of Federal Regulations in 21 CFR 177. 1520 for food contact.

## Storage and Handling

This product should be stored in dry condition at temperature below 40°C and protected from UV-light. When condensation is visible or can be expected, pre-drying is recommended. (Drying condition: 80~100℃/2~4hours at air circulated condition)

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## Disclaimer

All information, including product characteristics, applications and properties are for reference purpose only and shall not be construed as specifications. Before using this product, customers should carefully review the instructions for use of the product to determine whether the product is suitable for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of this product. HYOSUNG VINA CHEMICALS CORPORATION assumes no legal responsibility or liability for the contents of this document. We reserve the right to change the contents of this document without prior notice. This document is copyrighted by HYOSUNG VINA CHEMICALS CORPORATION. ***Topilene®*** is a registered trademark owned or used by HYOSUNG VINA CHEMICALS CORPORATION.

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