

Nylene® 406F Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

Dry as molded. Injection molding grade. Nylene 406F is a resin formulated to comply with FDA regulation 21 CFR 177.1500 for food contact applications. Nylene 406F is a general purpose, fast cycling molding resin. Crystallization initiators provide fast molding cycles through rapid melt set-up. Parts molded from 406F have better dimensional stability at moisture equilibrium than parts molded from conventional nylon. ALM, Nylene Canada, and Custom Resins are all operating companies of Polymeric Resources Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Nylene-406F-Nylon-6.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|-----------|
| Density | 1.13 g/cc | 0.0408 lb/in ³ | ASTM D792 |
| Water Absorption | 1.5 % | 1.5 % | ASTM D570 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------|----------------|-----------|
| Tensile Strength, Yield | 75.0 MPa | 10900 psi | ASTM D638 |
| Elongation at Break | 25 % | 25 % | ASTM D638 |
| Izod Impact, Notched | 0.400 J/cm | 0.749 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 182 °C | 360 °F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 71.0 °C | 160 °F | ASTM D648 |

| Processing Properties | Metric | English | Comments |
|------------------------|--------------|--------------|-----------|
| Processing Temperature | 232 - 243 °C | 450 - 469 °F | At Nozzle |
| Nozzle Temperature | 232 - 243 °C | 450 - 469 °F | |

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