

# Nylene® NX3064N

## TECHNICAL DATASHEET

TDS Ref # 926 Reviewed: 4/13/2017

### DESCRIPTION

- High viscosity nylon 6 designed for the extrusion of blown film (both mono-layer and multi-layer film structures).
- Suitable for profile extrusion such as tubing, shapes, etc.
- Good oxygen and flavor barrier to increase shelf life
- Nylene NX3064N has superior grease resistance, toughness, resistance to abrasion, and does not absorb food odors.
- Nylene films can be drawn to provide pockets for many food shapes.
- Offers chemical and heat resistance for hot filling wide range of food and chemicals

PROPERTIES	TEST METHOD	UNIT	VALUE
<b>PHYSICAL PROPERTIES</b>			
Specific Gravity	D792	n/a	1.13
Water Absorption	D590	n/a	1.9
<b>MECHANICAL PROPERTIES</b>			
Elongation	D638	%	200
Flexural Modulus	D790	psi (MPa)	400,000 [2759]
Notched Izod @ 23°C	D256	ft. lb./ in. (J/m)	0.8 [42.7]
Tensile Strength	D638	psi (MPa)	11,000 [76]
<b>THERMAL PROPERTIES</b>			
Melt Point	D3418	°F (°C)	428 [220]
<b>FILM PROPERTIES</b>			
Elmendorf Tear	D1922	gms./mil.	56
Elongation	D882	%	290
Secant Modulus	D882	psi (MPa)	94,600 [652]
Ultimate Tensile Strength	D882	psi (MPa)	8,650 [60]

### NOTES

- \*\*FILM PROPERTIES = FILM CONDITIONED, AND TESTED IN TRANSVERSE DIRECTION.
- Testing conducted on dry-as-molded specimens at 73°F

### PROCESSING CONSIDERATIONS: EXTRUSION HIGH VISCOSITY

### CHARACTERISTICS

Resin Type: Nylon 6  
 Product Characteristics:  
 High RV

### EXTRUSION PROCESSING

Film

### FEATURES

- Excellent melt stability
- Excellent melt strength
- Higher viscosity

### MARKETS USED

- Packaging Industry
- Food Packaging

### APPLICATIONS

- Extrusion Coating for Paper Board
- Film
- Flexible Packaging
- Fresh & Processed Meat Packaging
- Juice Packaging/Milk Cartons
- Plastic Containers
- Protective Liner
- Single Layer/Multi Layer Film
- Stand Up Packaging for Barrier Strength

### APPROVALS

- Direct Food Contact: FDA 21 CFR 177.1500

### DISCLAIMER

The data set forth herein has been carefully compiled by Nylene in our laboratories. Values shown are typical properties and not specifications. Since processing variables will affect properties, the reproducibility of our data in a customer's testing facility is not guaranteed. There is no warranty of any kind, either expressed or implied, applicable to the use of this information, and the user assumes all risk and liability in connection therewith.



**Headquarters and Facility:**  
 55 Haul Road, Wayne, NJ 07470  
 P: 973-694-4141 | F: 973-694-3549

**North American Sales Office:**  
 31700 Telegraph Rd. Suite 235, MI 48025  
 P: 248-377-6769 | F: 248-377-3845

**Nylene Custom Resins Facility:**  
 1421 Hwy 136 W. Henderson, KY 42420  
 P: 270-826-7641 | TF: 800-626-7050

**Nylene Canada Facility**  
 200 McNab Street, Arnprior ON, K7S 3P2  
 P: 613-623-3191 | TF: 800-267-7394

For a complete listing of our global offices, visit:  
[www.nylene.com/contactus](http://www.nylene.com/contactus)  
[www.nylene.com](http://www.nylene.com) | [info@nylene.com](mailto:info@nylene.com)

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