

# Nylene® CP41411

## TECHNICAL DATASHEET

TDS Ref # 867 Reviewed: 6/4/2015

### DESCRIPTION

- Nylene® CP41411 is a Nylon 6,6,6 copolymer suitable for both blown and cast film co-extrusion.
- This product can be processed effectively with extruder barrel and die temperatures set to give melt temperatures in the range of 440 – 500 °F (227 – 260 °C).
- Because Nylene CP41411 is polymerized using a continuous process, it has good lot-to-lot consistency.

| PROPERTIES                   | TEST METHOD | UNIT                | VALUE |
|------------------------------|-------------|---------------------|-------|
| <b>PHYSICAL PROPERTIES</b>   |             |                     |       |
| Oxygen Permeably             | D3985       | See Note#2          | 3.5*  |
| Relative Viscosity           | D789        | Formic Acid         | 3.5   |
| Specific Gravity             | D792        | n/a                 | 1.12  |
| Viscosity Number             | ISO307      | cm <sup>3</sup> /gm | 205   |
| <b>MECHANICAL PROPERTIES</b> |             |                     |       |
| Break Stress                 | D638        | MPa                 | 95    |
| Maximum Strain               | D638        | [%]                 | 350   |
| Maximum Stress               | D638        | Mpa                 | 95    |
| Tear Strength                | D1922       | grams               | 70    |
| <b>THERMAL PROPERTIES</b>    |             |                     |       |
| Melt Point                   | D3418       | °C                  | 195   |

### NOTES

- Oxygen permeability measured using 1 mil. mono-film.
- cc-mil/100 sq. in.-24 hr.-atm. @ 75 F.
- For comparison, values for nylon 6 monofilm of one mil was measured at 3.1 cc-mil/100 sq. in.-24 hr.-atm.
- Nylene® PAC690-95 can be processed effectively with extruder barrel and die temperatures set to give melt temperatures in the range of 440 – 500 °F (227 – 260 °C).

### PROCESSING CONSIDERATIONS: SPECIALTY SPECIALTY 66/6

Please contact for processing information on this product.

### CHARACTERISTICS

Resin Type: Nylon 6/6/6  
Product Characteristics:  
Mid RV

### EXTRUSION PROCESSING

Film

### FEATURES

- Excellent chemical resistance
- Excellent toughness
- Excellent transparency
- Low oxygen permeability

### MARKETS USED

- Packaging Industry

### APPLICATIONS

- Food Packaging
- Pet Food
- Sausage Casing

### 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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