

Nylon 6 Jacketing for Wire & Cable Applications

Nylene® resins provide excellent performance in low voltage applications that require a combination of toughness, abrasion resistance, and chemical resistance.



Nylene has dedicated production of nylon 6 resins designed exclusively for wire and cable applications.

For over 35 years, Nylene has supplied high-quality nylon 6 resins to leading wire and cable manufacturers.

Nylene serves customers of all sizes, offers solutions for a variety of gauges and line speeds, and produces products that are the industry standard in terms of product consistency, processability, and performance.

Key Characteristics of Nylene® BX3 Grades

- Heat resistance
- Chemical resistance to grease, oils, & hydrocarbons
- Cut, impact, and abrasion resistant
- Weight & size reduction of insulation
- Extends cable useful application life
- High line speed capability (up to 8,000 ft/m)
- UL Sunlight Resistance Rating (RSR)



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Major Applications

Nylene cable coatings are extensively utilized for a diverse range of applications across the wire and cable market:

- Building Wiring Applications: THHN/THWN
- Cable Tray 12-6 AWG
- Service Entrance & Armored Cable
- Standard circuit sizes in NM: 10, 12 & 14 AWG wire
- Electric Appliance & Motor Wires
- Industrial Machinery & Control Panel Wiring
- Automotive & Marine Applications



About Nylene Canada

Nylene Canada ULC. is a North American specialty nylon manufacturer that provides innovative and environmentally responsible solutions to the global plastics industries. Nylene manufacturers polymers for wire and cable, carpet fibers, and the compounding market. Nylene production processes incorporate closed-loop environmental advantages to offer recycling programs specific to their customer's needs.

Your Needs Are Our Priority.

Nylene's experts can help you with problem-solving, regulation compliance, manufacturing challenges, new application integration, and other support.

NYLENE® BX3 - WIRE & CABLE GRADES

Nylene® nylon 6 insulation material is extensively utilized in many countries as protection over the PVC insulation layer in less than 600V applications. Nylon insulation is suitable for all sizes of THHN/THWN-style wire and cable products.

General Properties of Nylene BX3 Grades

All Nylene BX3 grades contain heat stabilization additives to enhance product stability and long term heat resistance.

Manufacturing Specification	Min	Max	Test
* Relative Visc. Range (Unitless,RV)	2.45	2.75	2-3
Moisture Content (%) - All Grades		0.12	2-3
Methanol Extractables Range (%)	3.00	6.00	2-2

* 96% Sulfuric Acid @ 20°C

Classic Grade

Designed for normal wire and cable production line speeds (normally under 4,000 fpm and up to 7,000 fpm).



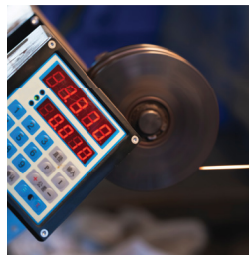
Nylene BX3WQ662

Specification	Min	Max	Test
Relative Visc.	2.55	2.75	2-3
Extractables (%)	3.00	5.00	2-2

✓ Qualified for QMTT2 applications

High Speed

Designed to use in high speed wire production (up to 8,000 fpm) or when higher flexibility is required.



Nylene BX3WQ662X

Specification	Min	Max	Test
Relative Visc.	2.55	2.75	2-3
Extractables (%)	4.00	6.00	2-2

✓ Qualified for QMTT2 applications

Reduced Fume Emission

Designed to provide flame resistance and reduce fume levels for plenum applications.



Nylene BX3RF

Specification	Min	Max	Test
Relative Visc.	2.55	2.75	2-3
Extractables (%)	3.00	5.00	2-2

✓ Qualified for QMTM2 applications

Low Surface Friction

Designed to produce a lubricated jacket which provides reduced surface friction for easier installation.



Nylene BX3LF

Specification	Min	Max	Test
Relative Visc.	2.45	2.75	2-3
Extractables (%)	4.00	6.00	2-2

✓ Qualified for QMTT2 applications

UV Light Resistant

Designed for added UV protection for applications such as; industrial equipment, machine tools, and control panels.



Nylene BX3UV

Specification	Min	Max	Test
Relative Visc.	2.55	2.75	2-3
Extractables (%)	4.00	6.00	2-2

** Approval Pending

UL Product Compliance

Nylene wire and cable products are UL registered meeting the requirements of UL 83, CSA (NM for wire jacketing).

✓ UL File QMTT2.E237217 ✓ UL File QMTM2.E521999

- UL QMTT2 and QMTM2 Certified
- UL Vertical Wire Flame Rating (VW-1)
- UL Cable Tray Flame Rating (CT)
- UL Sunlight Resistance Rating (RSR)