

## Nylene® BX3WQ662X-01

Polymeric Resources Corporation (PRC) - Polyamide 6

### General Information

#### Product Description

- Nylene BX3WQ662X-01 is a medium viscosity, heat stabilized, nylon 6 universal wire jacketing resin offering excellent performance through the range of THHN, THWN, and TFFN constructions.
- Meets the requirements of UL 83 for wire jacketing.
- This product possesses higher extractables for a balance of performance properties.
- Shields PVC from impact, damage and general deterioration.
- Improves the temperature rating of the wire, has good cut through resistance, and high resistance to abrasion.
- Heat Stabilized for continuous use temperature to 250F (121C).
- Dried to less than 0.15% moisture, with packaging options of 1,800 lb. gaylord boxes or 55 lb. foil-lined, vacuum sealed bags.

#### General

Material Status	• Commercial: Active
Availability	• North America
Additive	• Heat Stabilizer
Features	<ul style="list-style-type: none"> <li>• Abrasion Resistant</li> <li>• Fuel Resistant</li> <li>• Good Impact Resistance</li> <li>• Good Toughness</li> <li>• Heat Stabilized</li> <li>• Medium Viscosity</li> <li>• Oil Resistant</li> <li>• Self Lubricating</li> </ul>
Uses	<ul style="list-style-type: none"> <li>• Wire &amp; Cable Applications</li> <li>• Wire Jacketing</li> </ul>
Agency Ratings	<ul style="list-style-type: none"> <li>• UL 83</li> <li>• UL QMTT2</li> </ul>
Appearance	• Natural Color
Forms	• Pellets
Processing Method	<ul style="list-style-type: none"> <li>• Extrusion</li> <li>• Wire &amp; Cable Extrusion</li> </ul>

### Properties <sup>1</sup>

Physical	Nominal Value	Unit
Relative Viscosity		
-- 2	2.55 to 2.75	
-- 3	41.0 to 47.5	
Moisture Content	0.20	%
<b>Additional Information</b>	<b>Nominal Value</b>	<b>Unit</b>
Copper Content	35	ppm
Methanol Extractables	5.0 to 7.0	%

### Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	140 to 160	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.15	%
Cylinder Zone 1 Temp.	441 to 475	°F
Cylinder Zone 2 Temp.	441 to 475	°F
Cylinder Zone 3 Temp.	441 to 475	°F
Cylinder Zone 4 Temp.	441 to 475	°F
Cylinder Zone 5 Temp.	495 to 540	°F
Die Temperature	495 to 540	°F

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 96% Sulphuric Acid @ 20°C

<sup>3</sup> 90% Formic Acid @ 25°C

