Nylene® BX3WQ662X

Polymeric Resources Corporation (PRC) - *Polyamide 6*

General Information

Product Description

- Nylene® BX3WQ662X is a medium viscosity, heat stabilized, nylon 6 universal wire jacketing resin offering excellent performance through the range of THHN, THWN, and TFFN constructions. This versatile wire jacketing resin provides exceptional performance across various wire and cable applications.
- Meets the requirements of UL 83 for wire jacketing.
- This product possesses higher extractables for a balance of performance properties.
- Shields PVC from impact which causes cracking and breaking and general deterioration of the product.
- Improves the temperature rating of the wire, has good cut through resistance, and high resistance to abrasion.
- 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	• Abrasion Resistant • Fuel Resistant • Good Impact Resistance	• Good Toughness • Heat Stabilized • Medium Viscosity	• Oil Resistant • Self Lubricating
Uses	• Wire & Cable Applications	• Wire Jacketing	
Agency Ratings	• UL 83		
Appearance	• Natural Color		
Processing Method	• Extrusion	• Wire & Cable Extrusion	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Relative Viscosity			
-- [2]	2.55 to 2.75		
-- [3]	41.0 to 47.5		
Moisture Content	0.15	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress	11100	psi	ISO 527-2
Tensile Strain (Break)	32	%	ISO 527-2
Flexural Modulus	388000	psi	ISO 178
Flexural Stress	6740	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength	28	ft·lb/in²	ISO 180
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Copper Content	35	ppm	
Methanol Extractables	4.0 to 6.0	%	

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
[1] Typical properties: these are not to be construed as specifications.
[2] 96% Sulphuric Acid @ 20°C
[3] 90% Formic Acid @ 25°C