

## Nylene® PAC900-120UNL

Polymeric Resources Corporation (PRC) - Polyamide 6

### General Information

#### Product Description

- Nylene PAC900-120UNL is a high viscosity copolymer of nylon 6 and 6,9.
- PAC900-120UNL has many of the properties desirable in nylon 6 coupled with the advantages of a copolymer, which include lower processing temperatures.

#### General

Material Status	• Commercial: Active		
Availability	• North America		
Features	• Chemical Resistant	• Good Flexibility	• High Elongation
	• Copolymer	• Good Strength	• High Viscosity
	• Good Clarity	• Good Toughness	
Uses	• Cable Jacketing	• Fishing Applications	• Monofilaments
	• Coating Applications	• Lawn & Garden Equipment	• Wire & Cable Applications
Forms	• Pellets		
Processing Method	• Filament Extrusion	• Film Extrusion	• Wire & Cable Extrusion

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.11		ASTM D792
Relative Viscosity <sup>2</sup>	120		ASTM D789
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	6670	psi	ASTM D638
Tensile Elongation (Break)	270	%	ASTM D638
Flexural Modulus	245000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.6	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	392	°F	ASTM D3418

### Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	149	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Regrind	25	%
Cylinder Zone 1 Temp.	450 to 469	°F
Cylinder Zone 3 Temp.	469 to 489	°F
Cylinder Zone 5 Temp.	444 to 475	°F
Melt Temperature	480 to 500	°F
Die Temperature	480 to 500	°F

### Notes

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

<sup>2</sup> Formic Acid

