

## Nylene® 607

Polymeric Resources Corporation (PRC) - Polyamide 6

### General Information

#### Product Description

- Very high viscosity extrusion resin having an ASTM relative viscosity of 800.
- Particularly recommended for the extrusion of thick slab, large rod stock, and large complex profiles.
- Optimum processing conditions should permit for a melt temperature of 550 - 575°F (289 - 301°C) at the die.
- Properties promote dimensional control for extrusion of pipe, tubing, film, and sheet.

#### General

Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Lubricant		
Features	• Durable	• Good Melt Strength	• Lubricated
	• Good Drawdown	• Good Strength	• Ultra High Viscosity
Uses	• Blown Film	• Piping	• Rods
	• Film	• Pressed Slabs	• Sheet
	• Packaging	• Profiles	• Tubing
Forms	• Pellets		
Processing Method	• Extrusion	• Film Extrusion	

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

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.14		ASTM D792
Water Absorption (Equilibrium)	2.0	%	ASTM D570
<b>Mechanical</b>			
Tensile Strength	12300	psi	ASTM D638
Flexural Modulus	400000	psi	ASTM D790
Flexural Strength	15500	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (73°F)	0.90	ft-lb/in	ASTM D256
<b>Thermal</b>			
Deflection Temperature Under Load (66 psi, Unannealed)	367	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	149	°F	ASTM D648

### Processing Information

	Nominal Value	Unit
<b>Extrusion</b>		
Drying Temperature	180	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Re grind	25	%
Cylinder Zone 1 Temp.	421 to 444	°F
Cylinder Zone 3 Temp.	435 to 466	°F
Cylinder Zone 5 Temp.	444 to 475	°F
Melt Temperature	455 to 489	°F
Die Temperature	444 to 475	°F

### Notes

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

