

## Nylene® 51L FD

Polymeric Resources Corporation (PRC) - Polyamide 66

### General Information

#### Product Description

Injection Molding Grade, Lubricated, FDA Compliant, Nylon 6/6

#### General

Material Status	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>
Availability	<ul style="list-style-type: none"> <li>North America</li> </ul>
Additive	<ul style="list-style-type: none"> <li>Lubricant</li> </ul>
Features	<ul style="list-style-type: none"> <li>Lubricated</li> </ul>
Agency Ratings	<ul style="list-style-type: none"> <li>FDA</li> </ul>
Appearance	<ul style="list-style-type: none"> <li>Natural Color</li> </ul>
Forms	<ul style="list-style-type: none"> <li>Pellets</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.13		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 73°F)	13100	psi	ASTM D638
Tensile Elongation (Break)	> 10	%	ASTM D638
Flexural Modulus	470000	psi	ASTM D790
Flexural Strength	13100	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	0.81	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)	455	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	185	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.12 in)	HB		UL 94

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	460 to 550	°F
Middle Temperature	480 to 550	°F
Front Temperature	480 to 550	°F
Nozzle Temperature	480 to 559	°F
Processing (Melt) Temp	500 to 550	°F
Mold Temperature	81 to 160	°F
Back Pressure	50.0 to 100	psi

