

## Nylene® 494 BLK

Polymeric Resources Corporation (PRC) - Polyamide 6

### General Information

#### Product Description

- Engineered nylon 6 compound optimized for Rotational Molding
- Heat stabilization for high-temperature performance
- Pre-colored black for streamlined production and consistent aesthetics
- Economical formulation minimizes cost compared to 100% powder
- Optimized for use alongside Nylene® 494P BLK powder to ensure good part quality
- Compliant with CARB and EPA fuel permeation regulations, prioritizing environmental sustainability.

#### General

Material Status	• Commercial: Active
Availability	• North America
Features	<ul style="list-style-type: none"> <li>• Abrasion Resistant</li> <li>• Chemical Resistant</li> <li>• Creep Resistant</li> <li>• Good Strength</li> <li>• Grease Resistant</li> <li>• High ESCR (Stress Crack Resist.)</li> <li>• High Heat Resistance</li> <li>• Low Friction</li> <li>• Machinable</li> <li>• Oil Resistant</li> <li>• Paintable</li> <li>• Self Extinguishing</li> <li>• Wear Resistant</li> </ul>
Uses	<ul style="list-style-type: none"> <li>• Automotive Applications</li> <li>• Fuel Tanks</li> <li>• Housings</li> <li>• Lawn &amp; Garden Equipment</li> <li>• Power/Other Tools</li> <li>• Tanks</li> </ul>
Appearance	• Black
Forms	• Pellets
Processing Method	• Rotational Molding

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.13		ASTM D792
Water Absorption (Equilibrium)	2.0	%	ASTM D570
Relative Viscosity <sup>2</sup>	70.0		ASTM D789
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 73°F)	11500	psi	ASTM D638
Tensile Elongation (Break)	> 50	%	ASTM D638
Flexural Modulus	370000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Impact Strength <sup>3</sup> (73°F)	75	ft·lb	ARM
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	309	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	129	°F	ASTM D648
Peak Melting Temperature	428	°F	ASTM D3418
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.12 in)	HB		UL 94
Automotive Burn Test	Pass		FMVSS 302

### Processing Information

Injection	Nominal Value	Unit
Drying Time	0.33 to 0.42	hr
Suggested Max Moisture	0.20	%
Processing (Melt) Temp	550 to 649	°F

### Notes

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

<sup>2</sup> FRV

