

# Nylene® 494P BLK

## TECHNICAL DATASHEET

TDS Ref # 116 Reviewed: 3/13/2019

### DESCRIPTION

- Specially formulated, heat stabilized, nylon powder for the ROTOMOLDING process
- Chemical resistance to aromatic solvents, etc. especially at elevated temperatures
- Custom colors on demand
- Higher heat resistance and melting point. Not as likely to melt or lose shape if left in the sun.
- Higher impact at room and elevated temperatures
- Meets the strict CARB and EPA fuel permeation regulations
- Permits a single step process and a single layer material fuel tank. This will reduce the chances of failure and scrap, which makes it extremely cost competitive

PROPERTIES	TEST METHOD	UNIT	VALUE
<b>PHYSICAL PROPERTIES</b>			
Mold Shrinkage	n/a	in/in	0.015 - 0.020
Specific Gravity	D792	n/a	1.13
<b>MECHANICAL PROPERTIES</b>			
Drop Weight Impact @ RT	ARM	Ft-lbs	75
Elongation	D638	%	70
Flexural Modulus	D790	psi (MPa)	370,000 (2552)
Tensile Strength	D638	psi (MPa)	11,500 (79)
<b>THERMAL PROPERTIES</b>			
HDT @ 264 psi	D648	°F (°C)	131 (55)
HDT @ 66 psi	D648	°F (°C)	311 (155)

### NOTES

- Nylene strongly recommends the use of inert gases such as nitrogen in the mold to minimize thermal degradation of the nylon.
- Dried to less than 0.20% moisture and packaged in foil-lined drums to eliminate the need for pre-drying
- Testing conducted on dry-as-molded specimens at 73°F

### CHARACTERISTICS

Resin Type: Copolymers

Product Characteristics:

Unreinforced, Powder, Black, Heat Stabilized

### ROTATIONAL MOLDING PROCESSING

Specialty Grade

- Abrasion and wear resistant
- Easily machined
- Excellent creep resistance
- Excellent environmental stress crack resistance
- Higher heat resistance
- Low coefficient of friction
- Paintable
- Strength and modulus

### MARKETS USED

- Automotive Applications
- Tool & Appliance
- Fuel Applications
- Lawn and Garden

### APPLICATIONS

- Blower Housings
- Chemical Storage Tanks
- Diesel Tanks
- Fuel Tanks
- Gasoline Tanks - Multilayer
- Gasoline Tanks - Single Layer
- Hot Liquid Tanks
- Hydraulic Tanks

### APPROVALS

- FMVSS 302: Self Extinguishing

### DISCLAIMER

The data set forth herein has been carefully compiled by Nylene in our laboratories. Values shown are typical properties and not specifications. Since processing variables will affect properties, the reproducibility of our data in a customer's testing facility is not guaranteed. There is no warranty of any kind, either expressed or implied, applicable to the use of this information, and the user assumes all risk and liability in connection therewith.



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