

Nylene® 494 BLK

TECHNICAL DATASHEET

TDS Ref # 935 Reviewed: 3/12/2019

DESCRIPTION

- Dried to less than 0.20% moisture and packaged in foil-lined gaylords or bags to eliminate the need for pre-drying
- Heat stabilized
- Specially formulated nylon for the ROTOMOLDING process to reduce cost vs. using 100% powder.
- For rotomolding, this product must be used in conjunction with Nylene® 494P BLK powder to achieve good part quality.
- 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
PHYSICAL PROPERTIES			
Mold Shrinkage	n/a	in/in	0.015 - 0.020
Relative Viscosity	D789	Formic Acid	70
Specific Gravity	D792	n/a	1.13
MECHANICAL PROPERTIES			
Elongation	D638	%	70
Flexural Modulus	D790	psi (MPa)	370,000 (2552)
Tensile Strength	D638	psi (MPa)	11,500 (79)
THERMAL PROPERTIES			
DTUL @ 1820 kPa	D648	°F (°C)	140 (60)
DTUL @ 455 KPa	D648	°F (°C)	356 (180)

NOTES

- Nylene strongly recommends the use of inert gases such as nitrogen in the mold to minimize thermal degradation of the nylon.
- Testing conducted on dry-as-molded specimens at 73°F (22.8°C)

CHARACTERISTICS

Resin Type: Copolymers

Product Characteristics:

Heat Stabilized, High Impact, Small Pellets

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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