

Nylene® 494P

TECHNICAL DATASHEET

TDS Ref # 115 Reviewed: 3/13/2019

DESCRIPTION

- Nylene powders for rotational molding are heat stabilized nylon 6 materials specially formulated for the rotational molding process.
- Dried to less than 0.20% moisture and packaged in foil-lined drums to eliminate the need for pre-drying
- Higher heat resistance and melting point. Not as likely to melt or lose shape if left in the sun.
- Chemical resistance to aromatic solvents, etc. especially at elevated temperatures
- Higher impact at room and elevated temperatures
- 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
Water Absorption	D570	%	2.0
MECHANICAL PROPERTIES			
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)
THERMAL PROPERTIES			
HDT @ 264 psi	D648	°F (°C)	131 (55)
HDT @ 66 psi	D648	°F (°C)	311 (155)

NOTES

- Testing conducted on dry-as-molded specimens at 73°F.
- 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.

CHARACTERISTICS

Resin Type: Copolymers

Product Characteristics:

Unreinforced, Powder, Cream to Tan unless Colored, Heat Stabilized

ROTATIONAL MOLDING PROCESSING

Specialty Grade

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

MARKETS USED

- Automotive Applications
- Tool & Appliance
- Fuel Applications

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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