

Nylene® 494P IM BLK

TECHNICAL DATASHEET

TDS Ref # 243 Reviewed: 3/13/2019

DESCRIPTION

- Specially formulated nylon powder for the ROTOMOLDING process.
- For uses where HIGH IMPACT properties are required.
- 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.
- Chemical resistance to aromatic solvents, etc. especially at elevated temperatures.
- Excellent low temperature impact properties (Special impact modified products).
- 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.
- Meets the strict CARB and EPA fuel permeation regulations.

PROPERTIES	TEST METHOD	UNIT	VALUE
PHYSICAL PROPERTIES			
Mold Shrinkage	n/a	in/in	0.015-0.020
Specific Gravity	D792	n/a	1.095
Water Absorption	D570	n/a	1.8
MECHANICAL PROPERTIES			
Drop Weight Impact @ RT	ARM	Ft-lbs	125
Elongation	D638	%	150
Flexural Modulus	D790	psi (MPa)	235,000 (1,620)
Tensile Strength	D638	psi (MPa)	7,700 (53)
THERMAL PROPERTIES			
HDT @ 264 psi	D648	°F (°C)	117 (47)
HDT @ 66 psi	D648	°F (°C)	212 (100)
Melt Flow	D1238	dg/min	17

NOTES

- We strongly recommend the use of an inert gas such as nitrogen in the mold to minimize thermal degradation during processing.
- Values are measured on dry specimens.

CHARACTERISTICS

Resin Type: Copolymers

Product Characteristics:

High Impact, Powder, Black

ROTATIONAL MOLDING PROCESSING

Specialty Grade

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

- CARB Executive Order:: Q-13-016

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.



Headquarters and Facility:

55 Haul Road, Wayne, NJ 07470
P: 973-694-4141 | F: 973-694-3549

North American Sales Office:

31700 Telegraph Rd. Suite 235, MI 48025
P: 248-377-6769 | F: 248-377-3845

Nylene Custom Resins Facility:

1421 Hwy 136 W. Henderson, KY 42420
P: 270-826-7641 | TF: 800-626-7050

Nylene Canada Facility

200 McNab Street, Amprior ON, K7S 3P2
P: 613-623-3191 | TF: 800-267-7394

For a complete listing of our global offices, visit:

www.nylene.com/contactus

www.nylene.com | info@nylene.com

Copyright ©2019, Nylene. All rights reserved. Nylene is a designated trademark of Polymeric Resources Corporation.