

Nylene® 494P IM UV

TECHNICAL DATASHEET

TDS Ref # 884 Reviewed: 3/13/2019

DESCRIPTION

- 10 year UV stabilization package added for outdoor exposure protection.
- Dried to less than 0.20% moisture and packaged in foil-lined drums to eliminate the need for pre-drying.
- For uses where HIGH IMPACT properties are required.
- Specially formulated nylon powder for the ROTOMOLDING process.
- Chemical resistance to aromatic solvents, etc. especially at elevated temperatures.
- UV resistance package increases end-use product life, protects against premature color fading, and retains appearance under weathering conditions for longer periods.
- 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.
- Higher impact at room and elevated temperatures.
- Higher heat resistance and melting point.
- Excellent low temperature impact properties (Special impact modified products).

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)	265,000 (596)
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

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

CHARACTERISTICS

Resin Type: Copolymers

Product Characteristics:

Unreinforced, UV Stabilized, High Impact, Powder, Natural

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
- UV exposure protection

MARKETS USED

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

APPLICATIONS

- Blower Housings
- Chemical Storage Tanks
- Diesel Tanks
- Fuel Tanks
- Gasoline Tanks - Mult Layer
- 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.



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