

Polypropylene (polypropylene)

Polypropylene is an anti-static, poly-propylene, random copolymer polyolefin engineering plastic providing excellent chemical resistance

and high purity. FDA compliant with better mechanical properties than other typical polyolefin materials, it is light weight, weldable, and unaffected by

moisture. Plastifab's unique processing technology provides unsurpassed quality in Polypropylene stock shapes.

- **Excellent chemical resistance**

Polypropylene is resistant to organic chemicals, solvents, mineral acids, and inorganic salts.

- **Weldable**

- **High purity**

Polypropylene is nonparticulating and suitable for high purity environments.

- **FDA compliant**

Polypropylene meets FDA 21CFR 177.1520.

- **Light weight**

Polypropylene has a specific gravity of less than 1.

- **Moisture resistant**

Polypropylene is unaffected by water or moist environments.

- **Unsurpassed quality**

Unequaled extrusion expertise means users consistently obtain the highest quality polypropylene stock shapes.

Polypropylene excellent chemical resistance and high purity characteristics make it ideal for use in the food-processing and chemical-processing industries. Common applications include pump and valve components, tanks, laboratory equipment, and other parts in contact with corrosive environments.

TYPICAL PROPERTY VALUES

	PROPERTIES	ASTM Test Method	Units	Polypropylene
PHYSICAL	Density	D792	lbs/in ³	0.033
	Specific Gravity	D792	-	0.9
	Water Absorption, @24 hours, 73°F	D570	%	0.01 - 0.03
MECHANICAL	Tensile Strength, Break, 73°F	D638	psi	4,700
	Tensile Modulus, 73°F	D638	psi	130,000
	Elongation, Break, 73°F	D638	%	100
	Flexural Strength, 73°F	D790	psi	6,000 - 8,000
	Flexural Modulus, 73°F	D790	psi	180,000
	Izod Impact Strength, Notched, 73°F	D256	ft-lbs/in	0.9
	Rockwell Hardness	D785	"R" Scale	90
THERMAL	Deflection Temperature @ 66 psi	D648	°F	-
	@ 264 psi	D648	°F	130
	Coefficient of Linear Thermal Expansion	D696	in/in/°F	5 x 10 ⁻⁵
	Melting Point	D3418	°F	330
	Flammability	UL94	-	HB
ELECTRICAL	Dielectric Constant, @ 60 Hz, 73°F, 50% RH	D150	-	2.2
	Volume Resistivity, 73°F	D257	ohm-cm	1 x 10 ¹⁷

This information is only to assist and advise you on current technical knowledge and is given without obligation or liability. All trade and patent rights should be observed. All rights reserved. Data obtained from extruded shapes material.

MATERIAL AVAILABILITY

Rods: Diameters: 3/16" to 16"
 Lengths: 3/16" to 4-3/4" Diameter – 8'
 5" and greater Diameter – 5'
 See price page.

Profiles, tubes, and special sizes are custom-produced on request.



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