



PB1100 SERIES

(MODIFIED PTFE) M-111, M-112, NXT-75, TFM1700

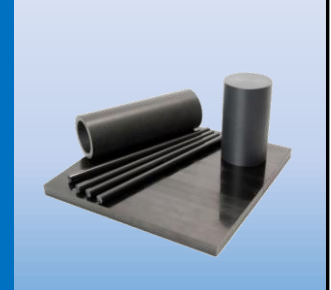
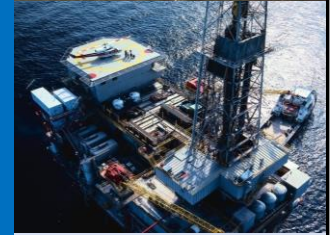
PB1100 (Modified PTFE) is well suited for a variety of chemical, mechanical, electrical and non-stick surface applications. Our PB1100 resins are fully fluorinated and have the best thermal, electrical, and chemical properties of all fluoropolymers with a continuous service rating of 500°F.

KEY MATERIAL ADVANTAGES:

- Lowest Coefficient of Friction of any solid material
- Excellent high-Frequency Insulation
- Chemically Inert to most chemicals except high-pressure, high-temperature fluorine gas, Chlorine Trifluoride and Molten Alkaline Metals
- Continuous operating temperatures up to 260 °C (500°F)

APPLICATIONS:

- Packings
- Gaskets
- Diaphragms
- Bellows
- Corrosion-Resistant Linings
- Piping Components
- Pump valve parts
- O-Rings
- V-Rings



PPS TYPICAL PROPERTY RESULTS:

	UNITS	Daikin M-111	Daikin M-112	DuPont NXT-75	3M Dyneon TFM-1705
Tensile Strength	MPa (psi)	20.0-45.0(2900-6350)	20-45(2900-6530)	31.5(4570)	20-45(2900-6530)
Flexural Modulus	GPa (ksi)	.490-.588(71.1-85.3)	.490-.588(71.1-85.3)	N/A	.490-.588(71.1-85.3)
Coefficient of Friction	N/A	020-.038	020-.038	N/A	020-.038
Melt Temperature	F°	621°F	621°F	500°F	621°F
Max. continuous service temp in air	F°	500 F°	500 F°	450 F°	500 F°
Water Absorption (Immersion for 24 hours)	%	0.00%	0.00%	0.00%	0.00%
Elongation at Break	ASTMD368	200%-450%	200%-450%	500%	200%-450%
Specific Gravity		2.133-2.22 g/cc	2.133-2.22 g/cc	2.17 g/cc	2.133-2.22 g/cc

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