PB2100 SERIES

Fluorinated Ethylene Propylene(FEP)

PB2100 SERIES - is a melt-processible copolymer of tetrafluoroethylene (PTFE) without additives that meets the requirements of ASTM D 2116 type IV. It offers the excellent combination of properties characteristic of DuPont Teflon® fluoropolymer resins: non-ageing characteristics, chemical inertness, exceptional dielectric properties, low flammability, heat resistance, toughness and flexibility, low coefficient of friction, non-stick characteristics, negligible moisture absorption and excellent weather resistance.

KEY MATERIAL ADVANTAGES:

- Chemical inertness
- Exceptional dielectric properties
- Lowflammability
- Heat resistance
- Toughness and flexibility
- Low coefficient of friction
- Non-stick characteristics
- Negligible moisture absorption
- Excellent weather resistance.

APPLICATIONS:

Wire and Cable/ Chemical Applications:

- Chemical Linings
- Bellows
- Valve Components
- Pipes
- Tubing

FEP TYPICAL PROPERTY RESULTS:

	UNITS	ASTM TEST	3M™ DYNEON™ FEP 6301 (PB2100)	DuPont™Teflon® FEP 9302 (PB2101)
Tensile Strength at Break (23°C)	MPa (psi)	D-638	30(4,350)	30(4,350)
Flexural Modulus	MPa (psi)	D-790	530(77,000)	530(77,000)
Izod Impact (notched) at (23°C)	lb-ft/in	D 256	0 break	0 break
Heat Deflection Temp @ 264 psi	1.8 Mpa, (°F)	D-648	500°F	515°F
Max. continuous service temp in air	F°		400°F	400°F
Water Absorption	%	D-570	<0.01	<0.01
(immersion for 24 hours)				
Coefficient of Linear Thermal Expansion	1/°c	D-696	10.5 x 10^{-5}	10.5 x 10^{-5}
Specific Graivty	g/cm³	D-792	2.12 -2.17	2.14

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