

HYDROBLOCK® P-SERIES FC FILM

HydroBlock® P-Series FC film is a polychlorotrifluoroethylene (PCTFE) copolymer that combines outstanding moisture barrier with excellent chemical resistance and deep draw forming characteristics. It is used for military and industrial packaging applications.

COMPARISON OF TYPICAL PROPERTIES		P750FC	P2000FC	P7800FC
Thickness		0.75 mil	2 mil	7.8 mil
Yield		17,440 in ² /lb	6,540 in ² /lb	1,677 in ² /lb
Haze			<1%	
Crystalline Melting Point			403°F	
Dimensional Stability 300°F/10 min.	MD	+2.5%	+2.5%	+2.5%
	TD	+2.5%	+2.5%	+2.5%
Tensile Strength	MD	10,000 – 15,000 psi	8,500 – 11,000 psi	4,000 – 5,200 psi
	TD	4,000 – 6,000 psi	4,500 – 6,500 psi	3,700 – 4,700 psi
Elongation	MD	100 – 150%	125 – 200%	50 – 200%
	TD	150 – 300%	150 – 250%	50 – 125%
Modulus, Secant	MD	230,000 – 280,000 psi	200,000 – 250,000 psi	185,000 – 200,000 psi
	TD	200,000 – 250,000 psi	190,000 – 225,000 psi	185,000 – 200,000 psi
Tear Strength, Graves	MD	1.0 lbf	2.4 lbf	8.6 lbf
	TD	0.8 lbf	2.2 lbf	8.6 lbf
Water Vapor Transmission Rate 100°F /100% RH		0.024 gms/100in ² /day	0.009 gms/100in ² /day	0.0025 gms/100in ² /day



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