

HYDROBLOCK® P-SERIES TR FILM

Hydroblock® P-series tr film is a poly-chloro-tri-fluoroethylene homopolymer, high performance barrier film for industrial and electronics applications. It provides outstanding water vapor barrier and excellent chemical resistance with high clarity.

COMPARISON OF TYPICAL PROPERTIES		P600TR	P800TR	P900TR
Thickness		0.6 mil	0.8 mil	0.9 mil
Yield		21,896 in ² /lb.	16,420 in ² /lb.	14,595 in ² /lb.
Haze			<1%	
Crystalline Melting Point			412°F	
Dimensional Stability 300°F / 10 min.	MD TD	≤ +12% ≤ -12%	≤ +12% ≤ -12%	≤ +12% ≤ -12%
Elongation	MD TD	11,000 - 17,000 psi 5,500 - 7,000 psi	11,000 - 16,000 psi 6,000 - 7,200 psi	11,000 - 16,000 psi 6,000 - 7,200 psi
Tear Strength, Graves	MD TD	80-130% 200-275%	100-150% 200-275%	100-150% 200-275%
Modulus, Secant	MD TD	200,000 - 240,000 psi 180,000 - 220,000 psi	190,000 - 225,000 psi 165,000 - 210,000 psi	190,000 - 225,000 psi 165,000 - 210,000 psi
Tear Strength, Graves	MD TD	0.6 lbf 0.6 lbf	0.9 lbf 0.9 lbf	1.0 lbf 1.0 lbf
Water Vapor Transmission Rate 100°F / 100% RH		0.027 gms/100in ² /day	0.021 gms/100in ² /day	0.017 gms/100in ² /day

COMPARISON OF TYPICAL PROPERTIES		P2000TR	P3000TR	P4000TR	P6000TR
Thickness		2 mil	3 mil	4 mil	6 mil
Yield		6,567 in ² /lb.	4,380 in ² /lb.	3,285 in ² /lb.	2,180 in ² /lb.
Haze				<1%	
Crystalline Melting Point				412°F	
Dimensional Stability 300°F / 10 min.	MD TD	≤ +6% ≤ -6%	≤ +6% ≤ -6%	≤ +5% ≤ -5%	≤ +3% ≤ -3%
Tensile Strength	MD TD	7,000 - 10,000 psi 4,500 - 7,500 psi	6,000 - 9,000 psi 4,000 - 7,000 psi	5,000 - 6,000 psi 5,000 - 6,000 psi	5,000 - 6,000 psi 5,000 - 6,000 psi
Elongation	MD TD	150-200% 175-250%	150-225% 175-225%	150-225% 175-250%	150-225% 100-200%
Modulus, Secant	MD TD	170,000 - 200,000 psi 170,000 - 200,000 psi	170,000 - 200,000 psi 170,000 - 200,000 psi	175,000 - 225,000 psi 175,000 - 225,000 psi	175,000 - 225,000 psi 175,000 - 225,000 psi
Tear Strength, Graves	MD TD	2.2 lbf 2.2 lbf	3.3 lbf 3.3 lbf	4.2 lbf 4.2 lbf	6.3 lbf 6.3 lbf
Water Vapor Transmission Rate 100°F / 100% RH		0.0084 gms/100in ² /day	0.0064 gms/100in ² /day	0.0040 gms/100in ² /day	0.0027 gms/100in ² /day

For more information

<https://industrial.honeywell.com/us/en/products/fluoropolymer-films/pctfe-barrier-films>

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