

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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