

# Honeywell Clarus® Barrier Films

## Clarus® P-Series HS Film

Clarus® P-Series HS film is a copolymer PCTFE film consisting. Clarus HS film has the ability to heat seal to itself utilizing impulse sealing methods. It has excellent moisture barrier and is used for electroluminescent lamps.

Comparison of Typical Properties		Clarus® P2000HS	Clarus® P3000HS	Clarus® P5000HS	Clarus® P7500HS	Clarus® P10000HS
Specific Gravity		2.09	2.09	2.09	2.09	2.09
Yield		6,647 in <sup>2</sup> /lb.	4,432 in <sup>2</sup> /lb.	2,659 in <sup>2</sup> /lb.	1,773 in <sup>2</sup> /lb.	1,329 in <sup>2</sup> /lb.
Haze		< 1%	< 1%	< 1%	< 1%	< 1%
Crystalline Melting Point		374°F	374°F	374°F	374°F	374°F
Dimensional Stability 300°F/149°C/10 min.	MD	+5 to +10%	+3 to +8%	< 3%	< 2.5%	< 2%
	TD	-5 to -10%	-3 to -8%	< 3%	< 2.5%	< 2%
Tensile Strength	MD	8,000–10,000 psi	8,000–10,000 psi	6,000–8,000 psi	5,500–7,000 psi	4,500–6,000 psi
	TD	5,000–7,000 psi	5,000–7,000 psi	4,000–6,000 psi	4,000–6,000 psi	4,000–5,500 psi
Elongation	MD	120–225%	150–225%	150–250%	200–275%	200–275%
	TD	150–250%	200–250%	150–250%	200–275%	200–275%
Modulus, Secant	MD	200,000–250,000 psi	125,000–175,000 psi	180,000–220,000 psi	125,000–175,000 psi	125,000–175,000 psi
	TD	180,000–220,000 psi	125,000–175,000 psi	170,000–200,000 psi	125,000–175,000 psi	125,000–175,000 psi
Tear Strength, Graves	MD	325–350 gms/mil	300–350 gms/mil	325–375 gms/mil	325–425 gms/mil	325–425 gms/mil
	TD	250–325 gms/mil	250–325 gms/mil	300–350 gms/mil	325–425 gms/mil	325–425 gms/mil
Water Vapor Transmission Rate 100°F (37.8°C)/100% RH		0.016 gms/100in <sup>2</sup> /day	0.011 gms/100in <sup>2</sup> /day	0.006 gms/100in <sup>2</sup> /day	0.005 gms/100in <sup>2</sup> /day	0.003 gms/100in <sup>2</sup> /day
Flammability		Non-flammable	Non-flammable	Non-flammable	Non-flammable	Non-flammable
Oxygen Index		100	100	100	100	100

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