

# Honeywell Halar E1000

Polychlorotrifluoroethylene

Honeywell

## Message:

The Honeywell Halar® E-Series ECTFE film is a high performance film with excellent mechanical, electrical and release properties. It is non-flammable, and has outstanding chemical resistance. Halar E-Series Film is available in the following colors: Blue, White and Clear.

General Information			
Features	Good electrical performance		
	Good chemical resistance		
	Good demoulding performance		
Uses	Films		
Appearance	White		
	Blue		
	Clear/transparent		
Forms	Films		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.68	g/cm <sup>3</sup>	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
With Metal-Dynamic	0.28		ASTM D1894
With self-dynamics	0.58		ASTM D1894
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
MD	1930	MPa	ASTM D882
TD	1520	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	35.2	MPa	ASTM D882
TD: Yield	31.0	MPa	ASTM D882
MD: Fracture	83.8	MPa	ASTM D882
TD: Fracture	57.6	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	180	%	ASTM D882
TD: Fracture	280	%	ASTM D882
Water Vapor Transmission Rate (38°C, 100% RH)	0.20	g · mm/m <sup>2</sup> /atm/24 hr	ASTM F1249
Thermal	Nominal Value	Unit	Test Method
Peak Crystallization Temperature (DSC)	240	°C	ASTM D3418
Additional Information			

Yield: 16490 in<sup>2</sup>/lbTensile Strength @ Yield, ASTM D 882, MD: 4500 to 5700 psiTensile Strength @ Yield, ASTM D 882, TD: 4000 to 5000 psiTensile Strength @ Break, ASTM D 882, MD: 88000 to 15500 psiTensile Strength @ Break, ASTM D 882, TD: 6200 to 10500 psiElongation @ Break, ASTM 882, MD: 90 to 275%Elongation @ Break, ASTM 882, TD: 210 to 355%Secant Modulus, ASTM D 882, MD: 230000 to 330000 psiSecant Modulus, ASTM D 882, TD: 190000 to 250000 psiGraves Tear (initial), ASTM D 1004, MD: 400 to 570 g/milGraves Tear (initial), ASTM D 1004, TD: 350 to 2700 g/milDimensional Stability, ASTM D1204, 300°F, 10 min: <3% shrinkageCoef of Friction, ASTM D1894, Vs Metal - Dynamic: 0.23 to 0.33Coef of Friction, ASTM D1894, Vs Itself - Dynamic: 0.30 to 0.86

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