

Honeywell Halar E500

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 ³	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 ² /atm/24 hr	ASTM F1249
Thermal	Nominal Value	Unit	Test Method
Peak Crystallization Temperature (DSC)	240	°C	ASTM D3418
Additional Information			

Yield: 32980 in²/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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT