

Honeywell PCTFE P3000TR

Polychlorotrifluoroethylene

Honeywell

Message:

PCTFE P-Series TR film is a PCTFE homopolymer, high performance barrier film for industrial and electronics applications. It provides outstanding water vapor barrier and excellent chemical resistance.

General Information			
Features	Homopolymer		
	Good chemical resistance		
	Barrier resin		
Uses	Electrical/Electronic Applications		
	Industrial application		
Forms	Films		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.10	g/cm ³	ASTM D792
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
MD	1170	MPa	ASTM D882
TD	1170	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Fracture	51.7	MPa	ASTM D882
TD: Fracture	41.4	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	200	%	ASTM D882
TD: Fracture	250	%	ASTM D882
Water Vapor Transmission	0.093	g/m ² /24 hr	ASTM E96
Thermal	Nominal Value	Unit	Test Method
Peak Crystallization Temperature (DSC)	211	°C	ASTM D3418
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	100	%	ASTM D2863
Optical	Nominal Value	Unit	Test Method
Haze	< 1.0	%	ASTM D1003
Additional Information			

Yield: 4380 in²/lbTensile Strength @ Break, ASTM D 882, MD: 6000 to 9000 psiTensile Strength @ Break, ASTM D 882, TD: 4500 to 7500 psiElongation @ Break, ASTM 882, MD: 150 to 250%Elongation @ Break, ASTM 882, TD: 200 to 300%Secant Modulus, ASTM D 882, MD: 150000 to 190000 psiSecant Modulus, ASTM D 882, TD: 150000 to 190000 psiGraves Tear (initial), ASTM D 1004, MD: 325 to 375 g/milGraves Tear (initial), ASTM D 1004, TD: 275 to 325 g/milDimensional Stability, ASTM D1204, TD, 300°F, 10 min: +5 to +10% shrinkageDimensional Stability, ASTM D1204, MD, 300°F, 10 min: -5 to -10% shrinkageFlammability: Non-flammable

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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

