

Honeywell PCTFE P4000TR

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	1380	MPa	ASTM D882
TD	1380	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Fracture	37.9	MPa	ASTM D882
TD: Fracture	37.9	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	190	%	ASTM D882
TD: Fracture	220	%	ASTM D882
Water Vapor Transmission	0.062	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: 3267 in²/lbTensile Strength @ Break, ASTM D 882, MD: 5000 to 6000 psiTensile Strength @ Break, ASTM D 882, TD: 5000 to 6000 psiElongation @ Break, ASTM 882, MD: 150 to 225%Elongation @ Break, ASTM 882, TD: 175 to 250%Secant Modulus, ASTM D 882, MD: 175000 to 225000 psiSecant Modulus, ASTM D 882, TD: 175000 to 225000 psiGraves Tear (initial), ASTM D 1004, MD: 450 to 525 g/milGraves Tear (initial), ASTM D 1004, TD: 450 to 525 g/milDimensional Stability, ASTM D1204, TD, 300°F, 10 min: <2% shrinkageDimensional Stability, ASTM D1204, MD, 300°F, 10 min: <2% shrinkageFlammability: Non-flammable

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