

# Honeywell PMP R1180

Polymethylpentene

Honeywell

## Message:

The Honeywell R-Series PMP film is made from polymethylpentene. It provides more toughness and heat resistance than standard polyolefins for release film applications. R-Series Film is available in the following colors: Blue and Clear.

General Information			
Features	Heat resistance, medium		
	Good toughness		
Uses	release film		
Appearance	Blue		
	Clear/transparent		
Forms	Films		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.908	g/cm <sup>3</sup>	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
With Metal-Dynamic	0.60		ASTM D1894
With self-dynamics	1.0		ASTM D1894
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
MD	676	MPa	ASTM D882
TD	676	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	42.7	MPa	ASTM D882
TD: Fracture	40.7	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	250	%	ASTM D882
TD: Fracture	370	%	ASTM D882
Water Vapor Transmission	7.8	g/m <sup>2</sup> /24 hr	ASTM E96
Additional Information			

Yield: 25852 in<sup>2</sup>/lbTensile Strength @ Yield, ASTM D 882, MD: 5200 to 7200 psiTensile Strength @ Break, ASTM D 882, TD: 4500 to 6300 psiElongation @ Break, ASTM 882, MD: 200 to 300%Elongation @ Break, ASTM 882, TD: 330 to 400%Secant Modulus, ASTM D 882, MD: 91000 to 105000 psiSecant Modulus, ASTM D 882, TD: 91000 to 105000 psiGraves Tear (initial), ASTM D 1004, MD: 220 to 280 g/milGraves Tear (initial), ASTM D 1004, TD: 220 to 280 g/milDimensional Stability, ASTM D1204, TD, 300°F, 10 min: <2% shrinkageDimensional Stability, ASTM D1204, MD, 300°F, 10 min: <1.5% shrinkageCoef of Friction, ASTM D1894, Vs Metal - Dynamic: 0.5 to 0.7Coef of Friction, ASTM D1894, Vs Itself - Dynamic: 0.8 to 1.2

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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



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