

Honeywell PMP Polymethylpentene Film (discontinued **)

Category : Polymer , Film , Thermoplastic , Polymethylpentene (PMP) , Polymethylpentene, Molded

Material Notes:

PMP is a clear, red, or blue film manufactured from polymethylpentene. It provides more toughness and heat resistance than standard polyolefins for release film applications. Information provided by Honeywell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Honeywell-PMP-Polymethylpentene-Film-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.910 g/cc	0.910 g/cc	
Density	0.913 g/cc	0.0330 lb/in ³	Yield Density
Water Vapor Transmission	46.5 g/m ² /day	2.99 g/100 in ² /day	100°F (37.8°C) / 100%RH; ASTM F1249
Thickness	49.5 microns	1.95 mil	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	150 - 210 %	150 - 210 %	ASTM D882
Film Elongation at Break, TD	380 - 500 %	380 - 500 %	ASTM D882
Secant Modulus, MD	0.552 - 0.648 GPa	80.1 - 94.0 ksi	ASTM D882
Secant Modulus, TD	0.621 - 0.703 GPa	90.1 - 102 ksi	ASTM D882
Coefficient of Friction	0.50 - 0.70	0.50 - 0.70	film to stainless steel; ASTM D1894
	0.80 - 1.2	0.80 - 1.2	film to film; ASTM D184
Tear Strength Test	220 - 280	220 - 280	graves tear MD, grams/mil; ASTM D1004
	220 - 280	220 - 280	graves tear TD, grams/mil; ASTM D1004
Film Tensile Strength at Break, MD	39.3 - 53.1 MPa	5700 - 7700 psi	ASTM D882
Film Tensile Strength at Break, TD	21.4 - 39.3 MPa	3100 - 5700 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Shrinkage, MD	<= 2.0 %	<= 2.0 %	350°F / 177°C - 10 min.; ASTM D1204
Shrinkage, TD	<= 1.5 %	<= 1.5 %	350°F / 177°C - 10 min.; ASTM D1204

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