



Material Data Sheet

Product: Polymethylpentene	Base Material: Film
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Description

Polymethylpentene (PMP) is a strong, tough film that is dimensionally stable over a broad range of temperatures. It has high wear resistance and outstanding flexural and tensile properties.

Typical Properties

<u>Mechanical Properties</u>	<u>Test Method</u>	<u>Unit</u>	<u>Value</u>
Tensile Strength at break	5mm/min ASTM D-638	psi	2490
Elongation at Break	MPC Method 5mm/min	%	20.0
Flexural Modulus	ISO 527	kpsi	280
Tensile Modulus	ISO 527	kpsi	210
<u>Physical Properties</u>			
Water Absorption, 24 hours	ASTM D-570	%	0.01
Specific Gravity	ASTM D-792	g/cc	0.835
Area Factor	-	in ² /lb/mil	33,330
<u>Electrical Properties</u>			
Volume Resistivity	ASTM D-257	ohm-cm	>=1.00e+16
Dielectric Constant	ASTM D-150	@ Frequency 100- 1.00e+6 Hz	2.12
Dielectric Strength	ASTM D-149	kV/in.	1,650
Dielectric Breakdown	ASTM D-149	V/mil	3,860
<u>Thermal Properties</u>			
Melt Temperature	ASTM D-3418	°C	235

The information presented in this publication is believed to be accurate and is not intended to constitute a specification. The values given reflect average material characteristics and may vary slightly between base suppliers. Users should evaluate the material to determine the suitability for their own particular application.

Base on terms and conditions

Seller's only obligation shall be to replace such quantity of the product proven to be defective. Seller shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use, or inability to use the product for his/her use, and the user assumes all risk and liability whatsoever in connection therewith. The foregoing may not be changed, except by an agreement signed by an officer or seller. We hereby certify that goods covered by this quotation have been produced in compliance with the Fair Labor Standards Act of 1983, as amended. Any credit memos to purchaser shall expire if not used within one year from date of credit memo.

